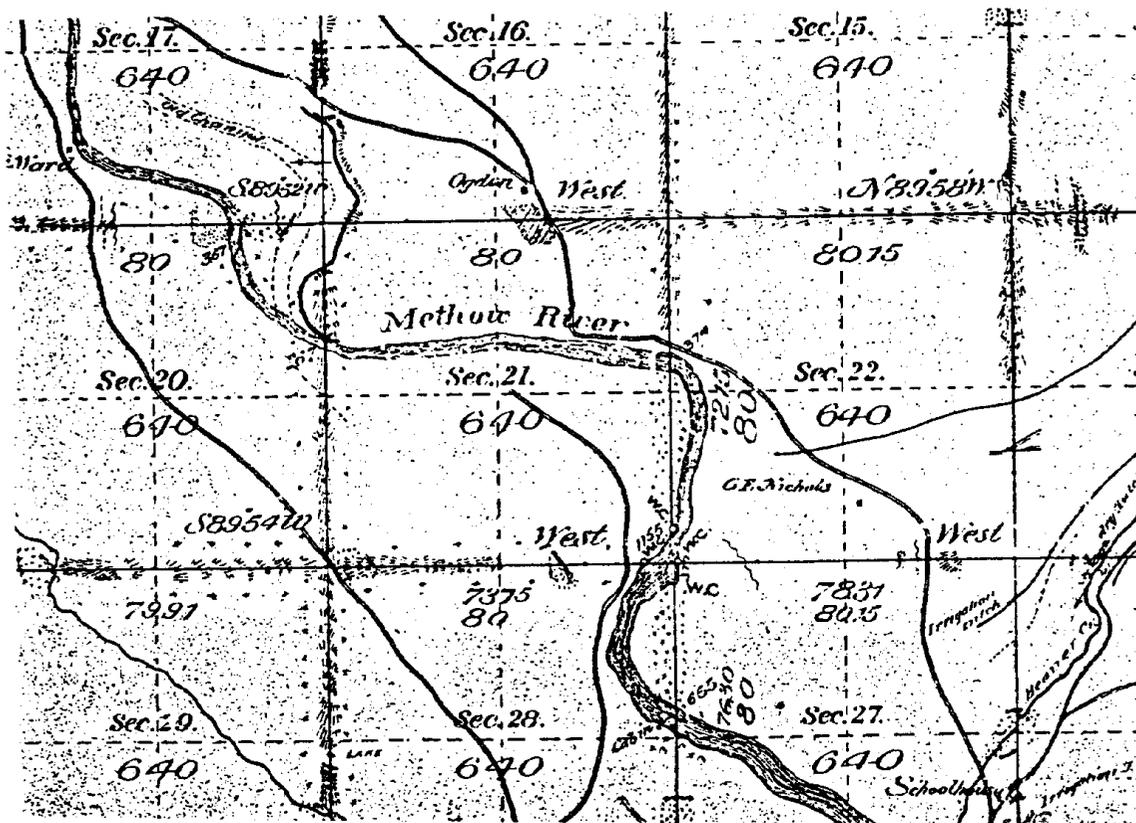


**METHOW RIVER, WASHINGTON:
RIVER WIDTHS, VEGETATIVE ENVIRONMENT, AND CONDITIONS
SHAPING ITS CONDITION, MOUTH TO HEADWATERS**



Submitted to

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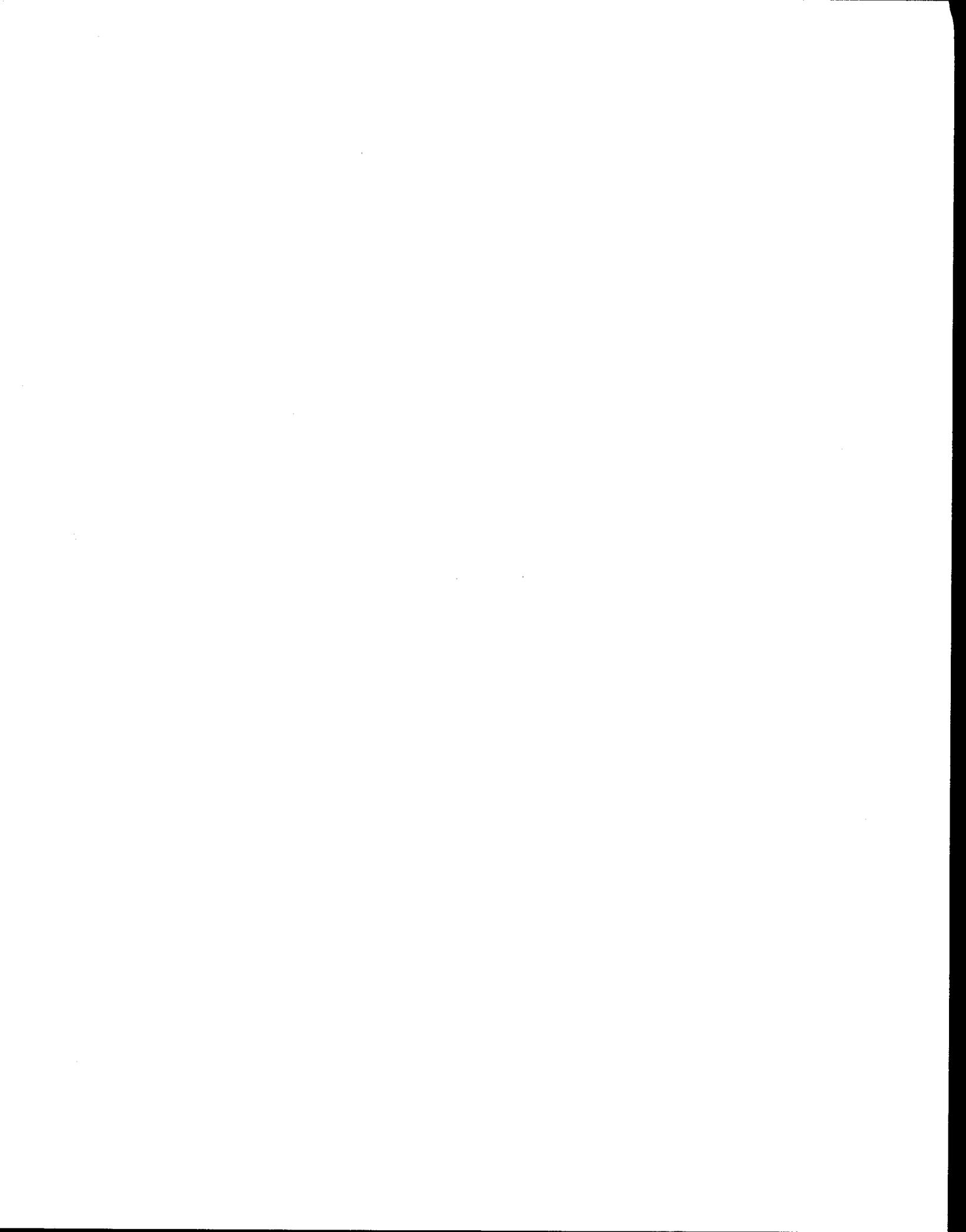
May, 1995



Preface

The following report was prepared by University scientists through cooperative agreement, project science staff, or contractors as part of the ongoing efforts of the Interior Columbia Basin Ecosystem Management Project, co-managed by the U.S. Forest Service and the Bureau of Land Management. It was prepared for the express purpose of compiling information, reviewing available literature, researching topics related to ecosystems within the Interior Columbia Basin, or exploring relationships among biophysical and economic/social resources.

This report has been reviewed by agency scientists as part of the ongoing ecosystem project. The report may be cited within the primary products produced by the project or it may have served its purposes by furthering our understanding of complex resource issues within the Basin. This report may become the basis for scientific journal articles or technical reports by the USDA Forest Service or USDI Bureau of Land Management. The attached report has not been through all the steps appropriate to final publishing as either a scientific journal article or a technical report.



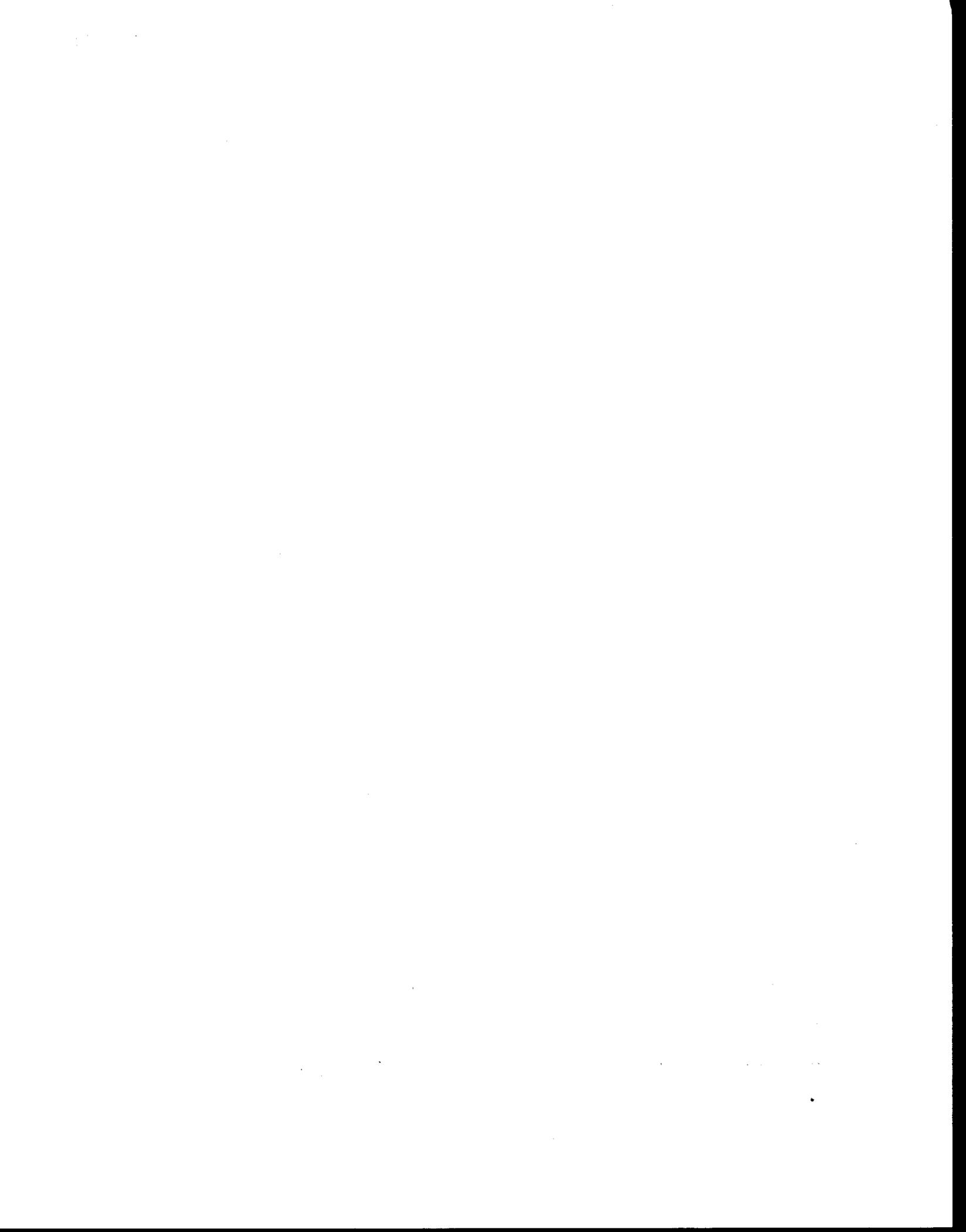
INTRODUCTION

The Methow takes its headwaters on the eastern slopes of the North Cascades near Methow Pass and Tower Mountain. The stream flows initially east and then makes a sharp turn to flow southeasterly to join the Columbia River. The Methow flows for nearly thirty miles through a valley from its confluence with Lost River to its junction with Libby Creek downstream from Carlton, Washington. The major communities of the Methow drainage--Winthrop, Twisp, and Carlton--lie in the valley. The lower twenty miles of the river pass through a deep canyon with few terraces or settings conducive to settlement.

Remote from primary routes of travel and transportation, the Methow gained attention initially during the explorations for mineral deposits in the 1850s and the 1860s. The entire watershed was then withdrawn from public entry as the Columbia Indian Reservation. Although squatters entered the region illegally, it did not officially open for settlement until 1886. At that point miners, stock raisers, and several intrepid farmers decided to invest the energies in the region. Modest settlement spread steadily up the river in the 1890s. Although mining played out and proved insignificant, logging, lumbering, and agricultural persisted and became the base for the area's economy.

The following report is concerned with a brief overview of development along the Methow and particularly those ventures which may have had impact on the river and its ecological setting. Placer mining, lode mining, opening of tunnels, the operation of a concentrator, diversion of water for irrigation, and log drives were among the activities which may have had impact over time on water quality and river conditions. Also relevant is the information on river widths and vegetation in the river corridor. That material is transcribed from the original survey field notes made between 1893 and 1906.

This study did not include work in the field notes of the United States Geological Survey for the preparation of topographic maps of the Methow watershed, nor did it include the notes developed by the USGS during its preliminary cruise of the timber in the North Cascades in anticipation of forest withdrawals which expanded the Okanogan National Forest. The USGS records--which commenced in the 1890s--have potentials to yield additional information as would exploration of newspapers, court records, irrigation district records, and notes of the Washington fish and game officials. Those materials were beyond the scope of the present study.



ACKNOWLEDGMENTS

This project was carried out with the assistance of Pat Pickens, BLM Archives, in Portland, OR., who secured photocopies of the plats of survey and microfiche of the survey field notes. The supporting documentary research was mounted at the Watzek and Boley libraries, Lewis and Clark College, Millar Library, Portland State University, and the library of the Oregon Historical Society, Portland, Oregon.

Stefan Nagler Aumack and Ethan Nagler Aumack mounted the tedious but necessary task of reading and transcribing the handwritten field notes of the cadastral surveyors, determining river widths, and creating the graph to illustrate the Methow River. For their patient assistance and good cheer, I am most grateful.

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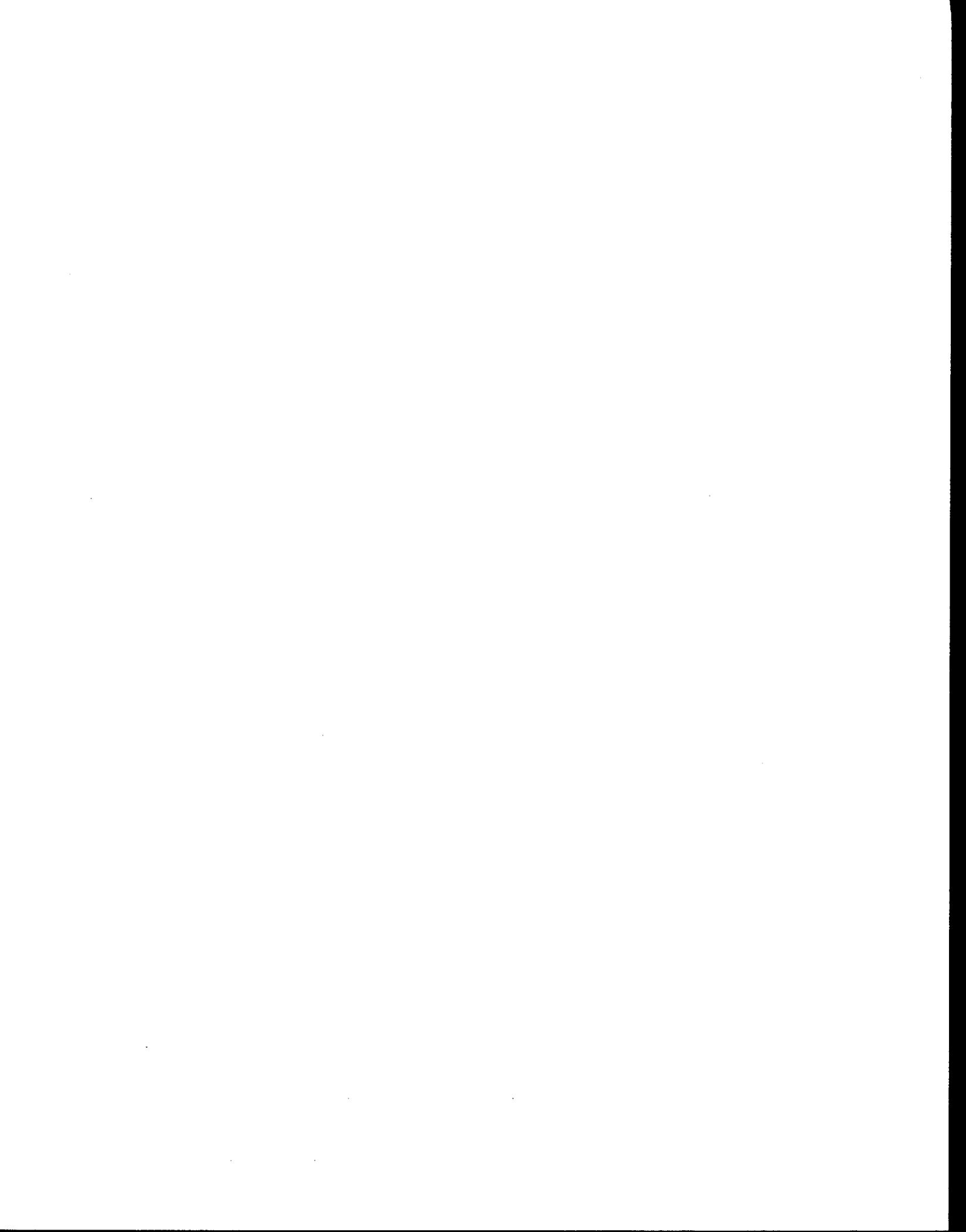


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Hemlock, fir, alder, cottonwood, alderwood, and maple timber are found along the Methow River and some of the creeks. The mountains are generally covered with a dense growth of pine and fir timber, many of the trees being 3 or 4 f[eet] in diam[eter] but short and scrubby.

C. Frank Rhodes, 1908
(Rhodes 1908b)

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HISTORICAL OVERVIEW

Exploration and Early Settlement, 1810s-1910

The Methow River lay distant from primary routes of travel for fur trappers, explorers, and emigrants. Taking its headwaters on the eastern face of the North Cascades, the river drained a region which has remained relatively isolated and remote throughout the historic period. Neither its course nor its source induced road or railroad developers to establish grades or foster large scale transportation systems via its valley. As a result of its relative isolation, the region has not generated an extensive history which documents specific impacts on the river or its surrounding vegetative corridor.

The earliest historic activity occurred a few miles upstream from the mouth of the Methow when David Stuart of John Jacob Astor's Pacific Fur Company selected a site and in 1812 erected Fort Okanogan. The fur seekers used this site at the confluence of the Okanogan and Columbia rivers as a way-station on their travels between Fort George at the river's mouth on the Pacific Ocean and outposts near Shuswap Lake at the junction of the Thompson and North Thompson rivers in British Columbia. In 1814 Alexander Ross explored west from Fort Okanogan, crossed the Methow, and pushed over the Cascades to Puget Sound. He subsequently wrote:

On the 25th of July we set out on our journey, our guns in our hands, each a blanket on his back, a kettle, fire steel, and three days provisions, depending upon our guns for our substance. Indeed, the only baggage we encumbered ourselves with consisted of ammunition for food and protection. Crossing the Oakinacken, we followed the west bank of the Columbia in a SW course distance 8 miles, till we reached the mouth of the Mea-who [Methow] River, a considerable stream issuing at the foot of the mountains, along the south bank of which we ascended, but from its rocky sides and serpentine courses, we were unable to follow it. We therefore struck a course off to the left, and after a short distance entered a pathless desert, in a course due west.

The Ross party crossed at Cascade Pass on August 4 and returned to Fort Okanogan after thirty days in the field (Ross 1956:36-38).

During the early operation of Fort Okanogan the fur trappers engaged in intensive trapping of the countryside and presumably worked their way on several occasions into the channels of the Methow River. In 1813, for example, Gabriel Franchere recalled that a brigade arrived at Fort George from the Okanogan region with "140 packets of furs, a collection from two years in the trading post at Okanogan and one at the Spokane post" (Franchere 1967:76). In 1824-25 the harvest of furs from the Thompson River and the Okanogan vicinity was 2,000 beaver (McLoughlin 1941:12). Because of its connections between the Thompson, Lake Osoyoos, and the Columbia, the Okanogan served as a primary route for fur traders in the period from 1812 to the latter 1840s. The Methow drainage, however, did not provide an easy passage through the peaks and, even when miners flocked to the Simalkameen Mines, it remained a quiet backwater remote from the primary routes and observations of travelers.

The course of the Methow River was identified in detail as early as 1859 by military personnel working for the U.S. Bureau of Topographical Engineers. Their "Map of the State of Oregon and Washington Territory" showed the watershed and a dotted line indicating the passage of an exploring party along the main stem of the river as well as far up Nakeelan Creek, a primary feeder stream flowing east from the slopes of the Cascades into the main river. Nakeelan Creek was subsequently identified as Twisp River (Anonymous 1859).

Gold discoveries in the upper Columbia region in the 1850s, particularly the Colville mines and on the Okanogan, led to close scrutiny of the Methow country for mineral deposits. The watershed of Nakeelan Creek was duly noted as a region of "Gold Mines" by 1865 (Giddings and Wilson 1865). Information on the production

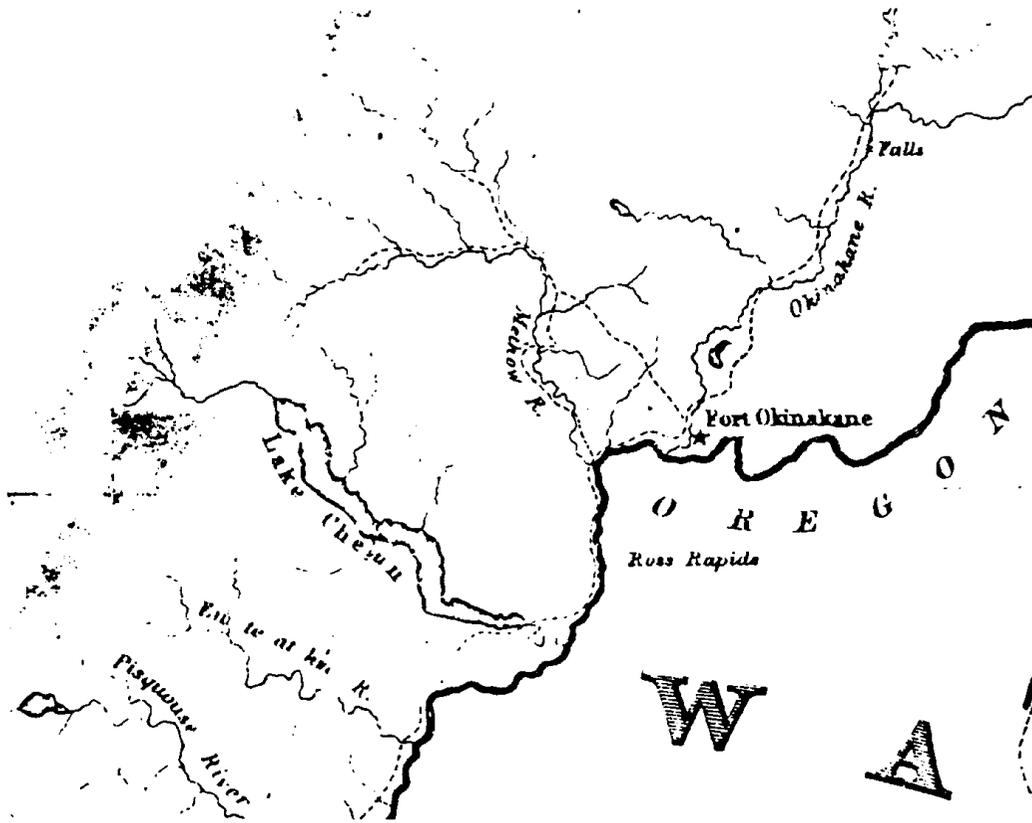


Fig. 1 Explorations by U.S. Bureau of Topographical Engineers, Methow watershed (Anonymous 1859).

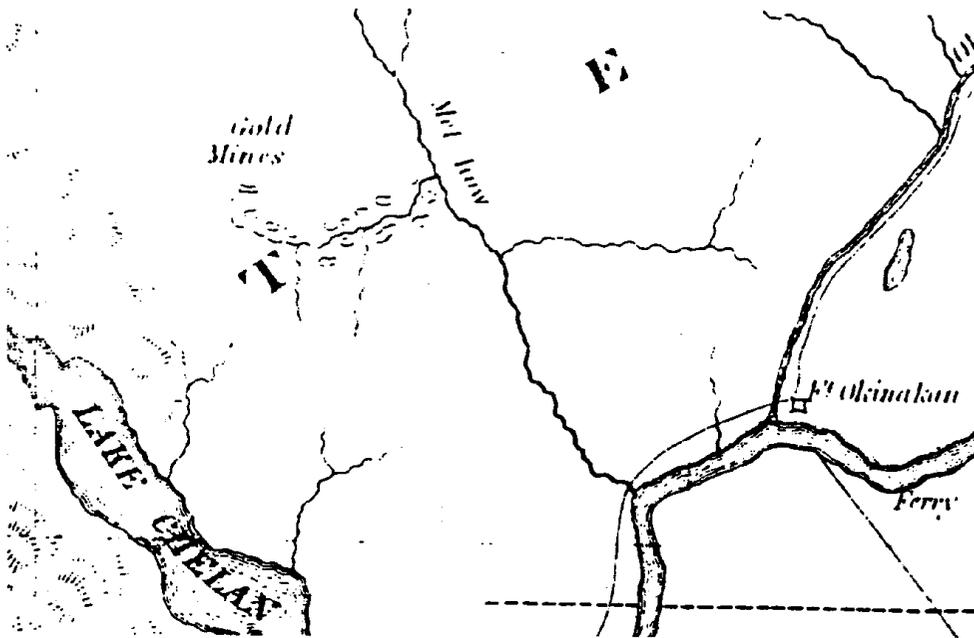


Fig. 2 "Gold Mines" on Nakeelan Creek (Twisp River) (Giddings and Wilson 1865).

from the Nakeelan Creek mines remained scanty. G. F. Lydecker, a cartographer for the Army Corps of Engineers, showed the trail system in the Methow drainage in his map of 1873 and also identified "Gold Mines" on the north slopes of the Nakeelan Creek watershed (Lydecker 1873). Frances Fuller Victor, who traveled and wrote widely about Washington Territory, gave but a cursory assessment in 1891 when she observed: "The Wenatchee, Yakima, Lake Chelan, and Methow River Districts, all lying just east of the Cascades are promising, but imperfectly known" (Victor 1891:396).

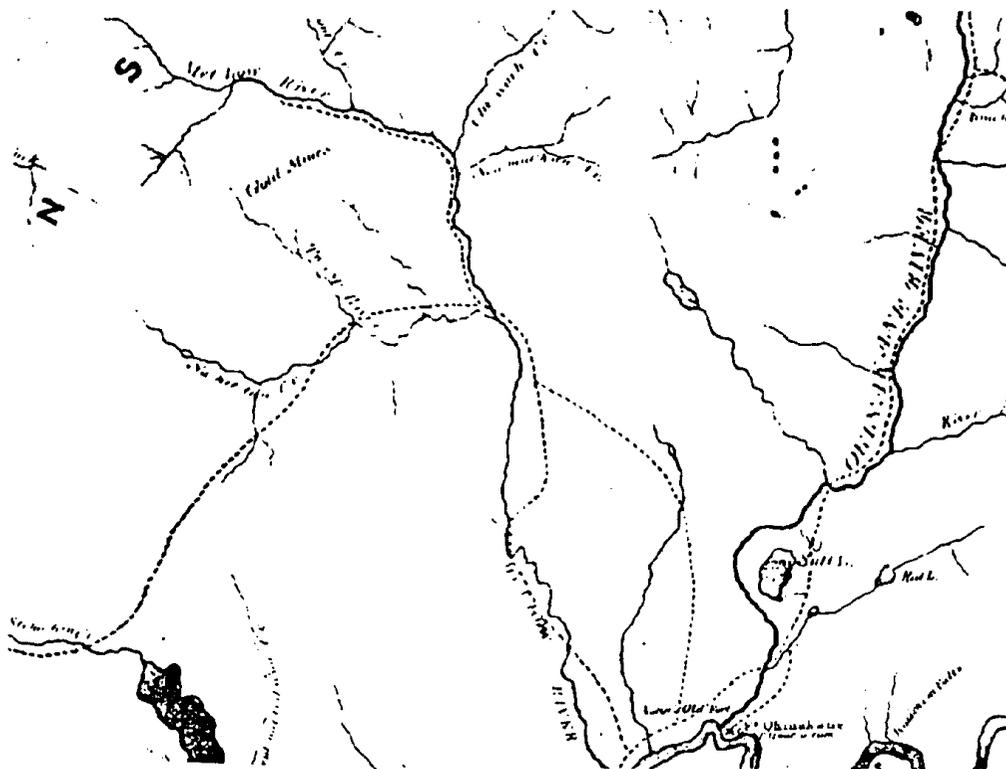


Fig. 3. "Gold Mines" lying north of Nakeelan Creek (Lydecker 1873).

The Methow watershed lay outside the area of extensive pioneer settlement because it was withheld from public entry as the Columbia Indian Reservation. This vast tract, located to the east of the Colville Reservation, reached from the Okanogan River on the east to the crest of the Cascades on the west (Symons, Downing and Manning 1881).

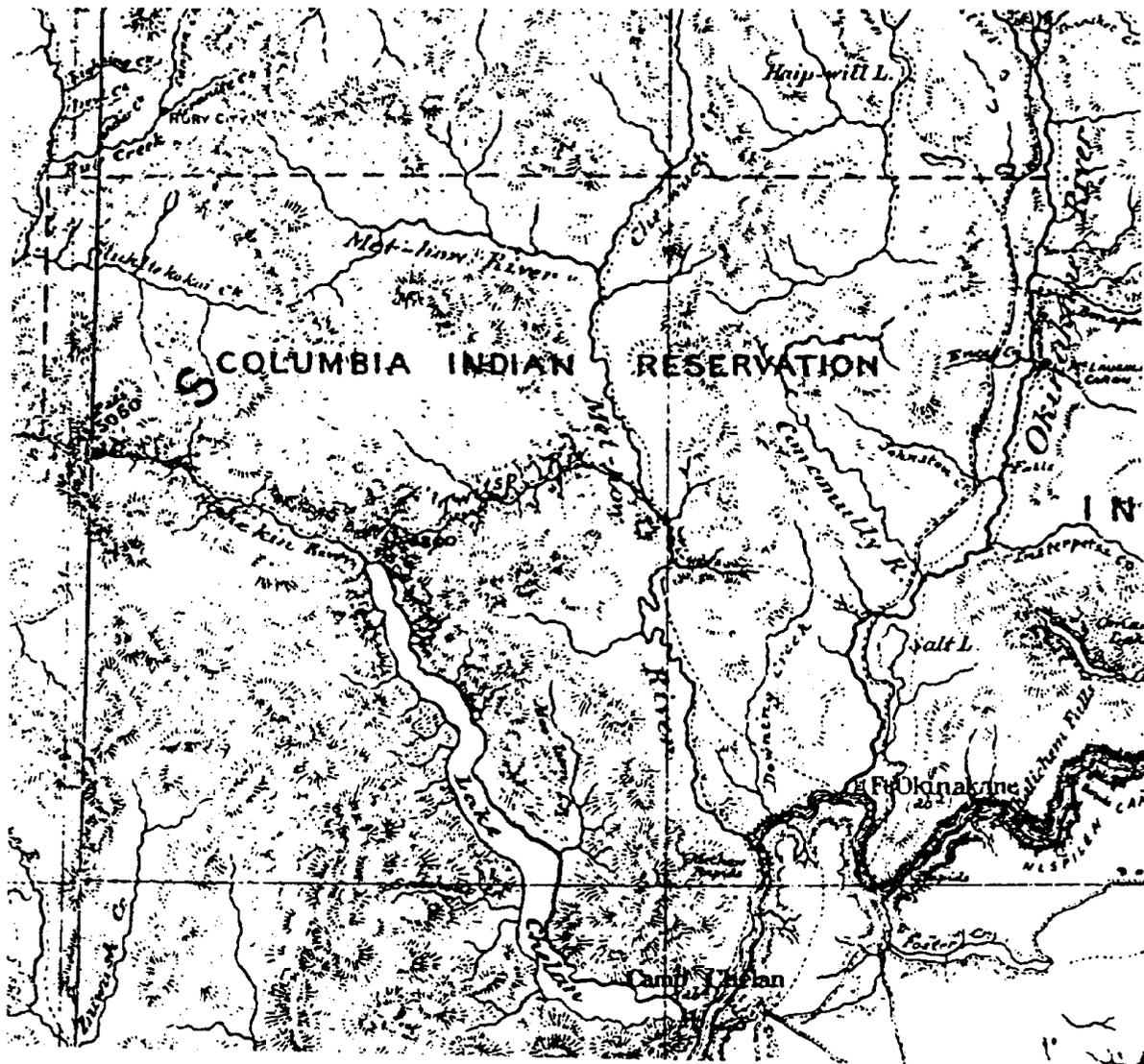


Fig. 4. Columbia Indian Reservation which encompassed the Methow watershed (Symons, Downing and Manning 1881).

The federal government withdrew the Columbia (or Moses) Reservation from public entry on April 19, 1879. On May 6, 1880, the president enlarged this reservation to the south so that it extended from the Canadian border to Lake Chelan and from the crest of the Cascades to the Okanogan River. Demands of settlers led on February 23, 1883, to the opening of a strip fifteen miles wide across the north side of the reservation. On July 7, 1883, Chief Moses was persuaded to cede the remainder of the reservation, an action approved by Congress on July 4, 1884. The president restored the Columbia Reservation to the public domain on May 1, 1886, and the Bureau of Indian Affairs, in anticipation of widespread pioneer settlement, removed the Sinkiuse (Columbia, or Moses) tribe to the Colville Reservation (Ruby and Brown 1986:205).

The General Land Office initiated cadastral surveys in 1894 in the Methow watershed. The first work commenced in the upper valley, a region attractive to early settlers and, within twelve years, included the subdivisions of most townships traversed by the river. In 1894 William Emerson mounted the subdivisions of T34N, R21E, W.M. The township included the subsequent townsite of Winthrop, WA., and was by the main stem of the Methow and Thompson Creek from the west. The attraction to settlers was the land. The township possessed "dark sandy loam producing large crops with irrigation," noted the surveyor. Further, the abundant bunchgrass on the hillsides proved attractive to stockraisers. Water from "good springs and small branches" was abundant (Emerson 1894b).

Emerson found similar circumstances in T35N, R21E, W.M., the next township up the Methow from Winthrop. In 1894 settlers resided at Parrygin Lake, along the East Fork of the Methow, and on the West Branch. One entrepreneur operated a Sawmill and had constructed "Thompsons MILL RACE" in Section 21. Emerson noted that the township was "well watered by numerous springs, spring branches and small

creeks, besides the East and West Branches of the Methow River" (Emerson 1894d).

The cadastral surveyors in the 1890s also found vegetation in the river corridor. In 1897 Emerson subdivided T31N, R22E, W.M., the township watered by McFarland and Gold creeks from the west. The land was mountainous but covered with bunch grass. "Timber is pine and fir and generally 2nd class with some cottonwood along the Methow River," noted the surveyor. The area had attracted miners but none had prospered. "The Township is well watered by the Methow River, which runs through it from NW to SE" (Emerson 1897b).

That same year--1897--Emerson subdivided T32N, R22E, W.M. Fed by Libby and Puckett creeks from the west, this township was deeply cut by the course of the Methow and included the site of Carlton, Washington. "Scattering cottonwood is found along the Methow River and its tributaries," noted Emerson. He then added:

The Methow River is generally skirted with a dense undergrowth of aspen, willow, rose bush, thorn and dogwood, and flows mostly between steep and rocky banks from 8 to 60 feet high. The bottom is covered with large boulders and the current is rapid having an average fall of 32 feet per mile. During the season of low water the average width of the water is from 2.50 to 3.00 chains in width and has a depth of 2 to 5 feet. There are a number of mining claims located throughout the Township. None have been sufficiently developed to determine their true value (Emerson 1897b).

The riverine corridor of the upper reaches of the Methow were substantially more timbered than the section closer to the Columbia River. In T33N, R22E, W.M., the vicinity of Twisp, Washington, Moses M. Emerson noted "The timber along the rivers and creeks is generally cottonwood of small size, and large scattering pine trees" (Emerson 1897f). In T36N, R20E, W.M., some distance upstream from Winthrop, Washington, C. Frank Rhodes noted: "Hemlock, fir, alder, cottonwood,

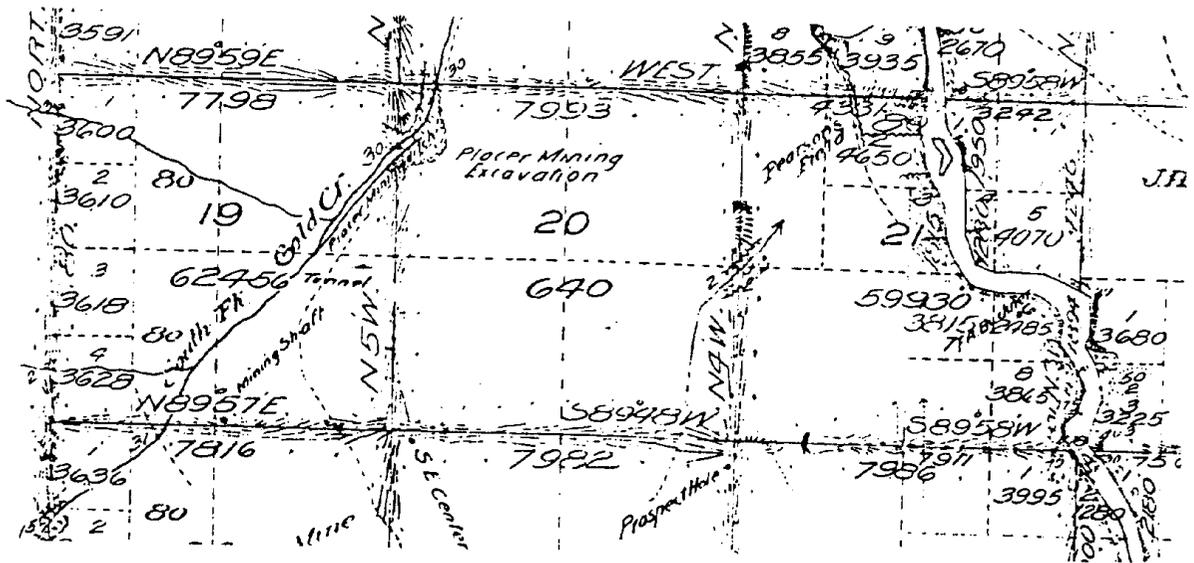


Fig. 8. Placer mining, shafts, and claims in Sections 19 and 20, T31N R22E, W.M. on South Fork of Gold Creek (Emerson 1897a).

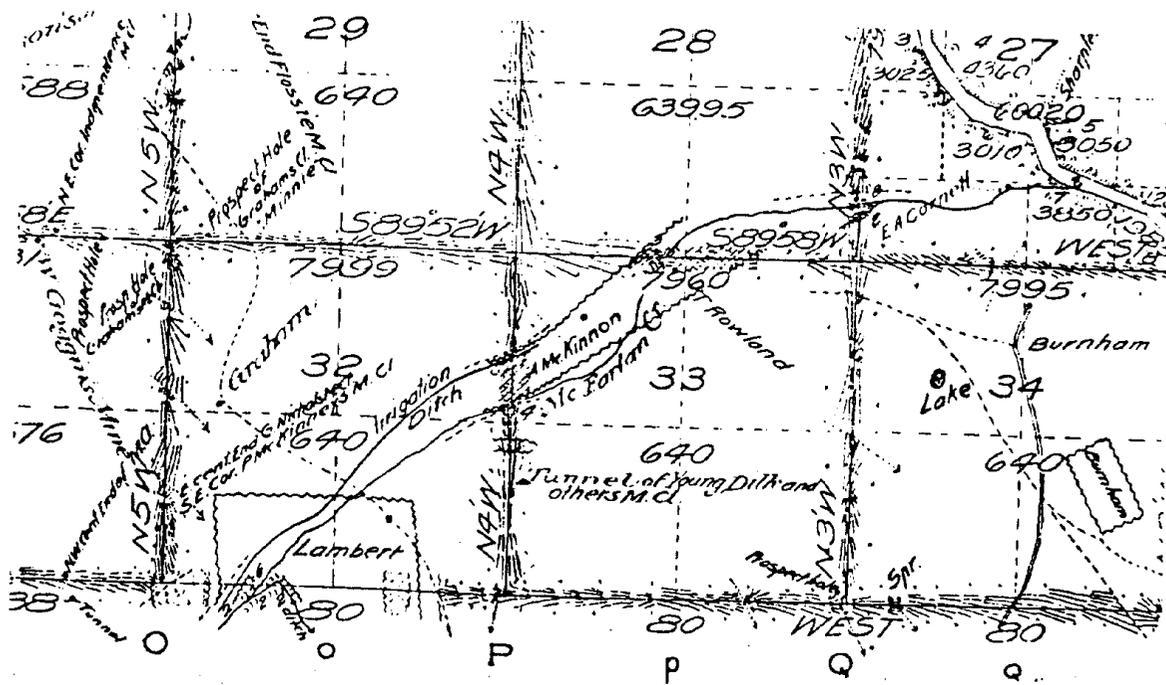


Fig. 9. Mining claims, prospects, tunnel, and irrigation ditch in Sections 29, 32, 33, T31N, R22E, W.M. on McFarlan Creek (Emerson 1897a).

In the 1890s settlers began construction of ambitious irrigation ditch projects. Illustrative of this labor was the ditch system near the confluence of Gold Creek with the Methow River in T31N, R22E, W.M. The cadastral surveyor found that a the Simmond's farm in Sections 7-8 was served by a "ditch," that A. Countryman had a two-mile-long irrigation ditch drawing water from Gold Creek, and that other irrigation ditches below the mouth of Gold Creek served the Heath farm (Emerson 1897a). These projects confirm that a century ago agriculturalists were rapidly developing water withdrawals from the Methow and its tributaries.

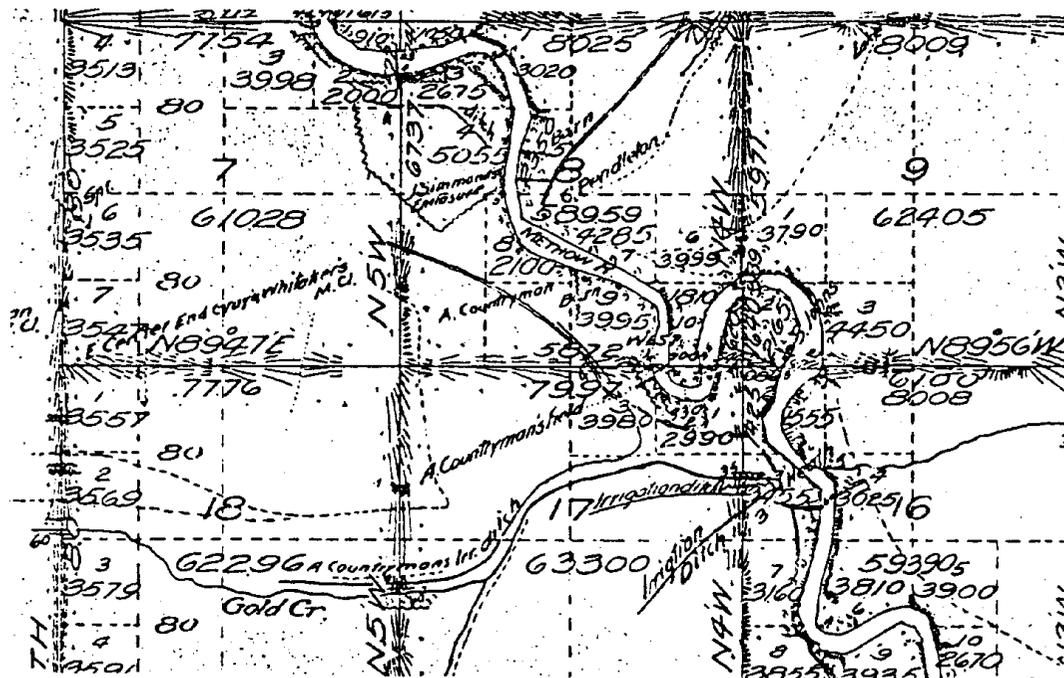


Fig. 10. Irrigation ditches in the vicinity of the confluence of Gold Creek and the Methow River, T31N, R22E, W.M. (Emerson 1897a).

Farther up the Methow other pioneer settlers had constructed ambitious irrigation facilities four to five miles below the mouth of the Twisp River. In 1894 the cadastral surveyor found three irrigation ditches

rudimentary techniques. Joe White, a squatter on the Columbia Indian Reservation, was one of the first to attempt irrigation on a claim on Beaver Creek. "Lacking a plow," wrote Bruce Wilson, "White dug a series of holes leading from Beaver Creek to a field, tied a rope to a log, hitch the rope to his saddlehorn, and rode his horse along the line of holes, dragging the log." He then turned the water into the groove which, in time, sluiced out the ditch which irrigated his farm (Wilson 1990:212). In the early twentieth century farmer launched larger scale irrigation projects. Between 1900 and 1910 more than twenty different irrigation systems emerged, mostly produced by use of horse-drawn plows pulling scrapers. Because of the proximity of the Methow to old stream terraces, farmers were often able with little labor to irrigate anywhere from 100 to 200 acres by ditches of two to five miles (Wilson 1990:216-217).

Thomas S. Blythe, a Scotsman, acquired property on Crab Creek where he launched a major livestock operation. Blythe settled in 1905 in Twisp and promoted a canal to divert the Twisp and Methow rivers to irrigate 1,200 acres along the Methow from Twisp to Carlton. Blythe's project foundered financially but was reorganized in 1919 as the Methow Valley Irrigation District. Near the mouth of the Methow agriculturalists used a hand-dug ditch constructed by placer mining Chinese laborers to irrigate orchards. With reworking this ditch diverted water from the Methow to 336 acres of orchards along the Columbia River (Wilson 1990:217).

The Methow was also used for log drives early in the twentieth century. A photo of four men with peavies rolling logs on the river carried the caption: "Log drives--uncommon in Okanogan County--played a fleeting role in Methow Valley history." There is no record of splash dams, only the use of the spring freshets to move logs to the Hazard Ballard sawmill six miles above Winthrop (Wilson 1990:198).

By 1899 the Methow Valley had become a settled community. Although the canyon of the lower river attracted few settlers, the upper valley drew nearly 350. Their nascent communities beckoned to others. The elevation mitigated against a thriving agricultural economy. The region's isolation from primary routes of travel checked its development in offering goods and services. The creation of the Okanogan National Forest in the 1890s further controlled change. The vast acreages in the reserve were closed to logging and lumbering for the next five decades. Nevertheless a rural community and small towns emerged along the upper Methow. To many this place became home.

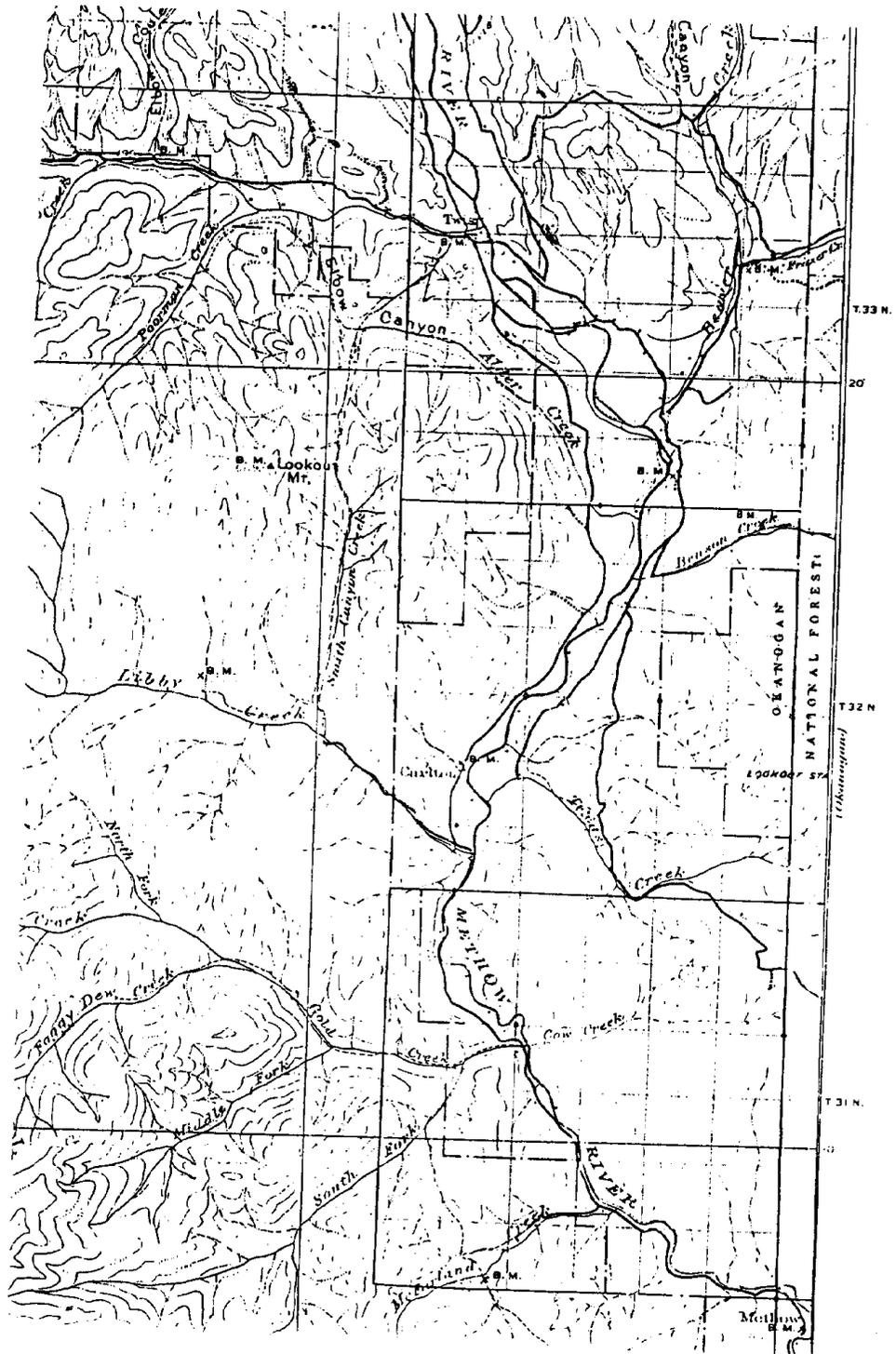


Fig. 13. Upper Methow Valley: wagon roads and towns (USGS 1899).

CADASTRAL SURVEY NOTES, 1893-1908

The following information is abstracted from the manuscript field notes of the contract surveyors working for the General Land Office in townships bisected by the Methow River between its mouth and headwaters. Data in bold font highlights river widths and vegetation notes at the date of survey. The surveys responded to the demands of local settlers to have legal descriptions to their lands so that they could secure deeds from the land office. Thus, in most instances, the surveyors encountered a variety of human activities along the course of the Methow at the date of the township subdivisions.

Mouth of Methow to Gold Creek

TOWNSHIP 30N, RANGE 23E, WM

West on a true line bet[ween] sec[tion]s 1 and 36

Over mountains along level to
3.00 Brow of bench 600 f[ee]t above the Columbia river b[ea]rs N & S.
23.50 The left bank of the Columbia river.
Set a granite stone
To determine the dist[ance] across I set a flag on line on right
bank
Therefore the dist[ance] is . . . 22.80 ch[ain]s which added to
23.50 makes 46.20.
(40.00 Point for 1/4 sec[tion] cor[ner] falls in the river.)
46.30 To right bank of Columbia river
Set a granite stone
Thence I run on a blank line through Indian Allotment N[umber]
25.
74.25 Right bank of Methow river.
Set granite stone
To determine dist[ance] across I set flag on line on left bank of the
river
**Therefore the dist[ance] is . . . 5.93 ch[ain]s which added to 74.25
makes 80.18 ch[ain]s to point of triangulation.**
**I measure E 18 l[in]ks to a point for the cor[ner] of sec[tion]s 1, 2,
35 and 36 and also the meander cor[ner] on the left bank of the
Methow river.**
80.00 Set a granite stone . . . pits impracticable.
A pine 16 in[che]s diam[eter] bears S35°E 249 l[in]ks
dist[ant]
No other tree in limits.
Land mountainous.

Soil gravelly and sandy 3rd and 4th rate.
No timber.
Over water by triangulation 28.50 ch[ain]s.
Mountainous land 20.50 ch[ain]s.

West bet[ween] sec[ti]on[s] 2 and 35

Over nearly level land

.08 **Top of Methow river bank 6 f[ee]t above the sec[ti]on cor[ner] b[ea]rs NW and SE.**

.38 Wire fence b[ea]rs NE enter K.K. Parker's field.

13.50 Enter peach orchard b[ea]rs NE and SW.

17.00 Leave [peach orchard b[ea]rs NE and SW].

28.50 Irrigation ditch 5 l[in]ks wide 18" deep course NE.

30.00 Point and foot of spur rises to the N.

33.35 Same irrigation ditch course SE.

35.14 Wire fence b[ea]rs N and S leave K.K. Parker's field.

39.00 Enter dense undergrowth b[ea]rs NW and SE.

39.90 **Leave [dense undergrowth b[ea]rs NW and SE].**

40.00 **The left bank of the Methow river.**
Set granite stone . . . pits impracticable.
As this is an impracticable place to measure a base line, I set a flag on right bank and one at the cor[ner] just established and cross the river to the flag . . . **therefore the dist[ance] is . . . 5.56 which added to 40.00 makes**

45.56 **The right bank of the Methow river.**
Allotment N[umber] 24 includes Methow river 150 l[in]ks out therefore no meander cor[ner] is set, thence W on a blank line through Indian Allotment N[umbers] 24 and 27.

70.80 Knowing that the W line of Allotment N[umber] 24 will intersect the S b[od]y of the t[ri]b[ut]e near this place and to intersect it properly I now go to Canyon Mouth Lake, and from a stone mound with post . . . and identified by the Indian as the true cor[ner]

I run N37°E 115 ch[ain]s to a point on the right bank of the Methow river
S53°30'E of a post standing in a mound of stone identified by the Indian as the true cor[ner] 130 l[in]ks dist[ant], and corresponds to a true bearing of N36°21'E
Point for cor[ner] to sec[ti]on[s] 2, 3, 34 and 35 falls in Indian Allotment N[umber] 27.
Set temp[orary] cor[ner] from which to run N
Land nearly level. Soil 1st rate.
No timber.

Across Allotment 54.44 ch[ain]s of blank line.
Dense undergrowth 40 l[in]ks.

N1'E on a blank line through allotment N[umber] 27

- 32.14 **Right bank Methow river b[ea]rs S53°E which is the NE
b[o]dy of Allotment N[umber] 27.**
Set a granite stone . . . pits impracticable.
From which b[ea]rs
A cottonwood 4 in[che]s diam[eter] bears S20°E 122 l[in]ks
dist[ant]
Thence I run S89°45'W on a true line bet[ween] sec[ti]on[s]
1 and 2
Over mountainous and level land through timber.
- .90 Enter dense undergrowth b[ea]rs N and S.
6.65 Leave [dense undergrowth b[ea]rs N and S].
10.85 Rail fence b[ea]rs NW and SE.
11.00 Wagon road b[ea]rs NW and SE leave level b[ea]rs N and S and
ascend steep mountain side slope NE.
40.60 Set a granite stone
66.10 Summit of mountain b[ea]rs N and S 800 f[ee]t above sec[ti]on
cor[ner] descend slope E.
75.60 Enter asp[er]n thicket bears N and S.
78.10 Bottom of ravine 300 f[ee]t below.
Summit course S10°W.
Leave dense undergrowth and ascend abruptly slope E.
- 80.60 The cor[ner] to sec[ti]on[s] 1, 2, 11 and 12.
Land mountainous and level.
Soil 1st rate on levels 4th rate rocky on mountains.
Timber scattering pine 2nd class
Dense undergrowth aspen and willow 8.20 ch[ain]s.
Mountainous land and dense undergrowth 74.70 ch[ain]s.

E on a random line bet[ween] sec[ti]on[s] 27 and 34

- 20.64 **Right bank Methow river set temp[orary] meander cor[ner] to
determine dist[ance] across I set a flag on line on left bank . . . the
dist[ance] is . . . 4.66 ch[ain]s which added to 20.64 makes**
- 25.30 **The left bank Methow river**
Set temp[orary] meander cor[ner]
- 40.00 Set temp[orary] 1/4 sec[ti]on cor[ner]
- 80.00 Intersect N and S line at cor[ner] to sec[ti]on[s] 26, 27, 34 and 35
Thence I run
W on a true line bet[ween] sec[ti]on[s] 27 and 34

- 2.50 Over mountains ascend slope SE
Top of ridge 100 feet above section corner bears N and S
descend slope W
- 39.00 Top of mountain bears N30°W and S30°E
- 40.00 Set a granite stone
Thence along level
- 40.90 Wagon road to [. . .] basin N30°W and S30°E
- 48.00 Brow of bench 300 feet above Methow river bears
N30°W and S30°E descend-slop SW
- 54.00 Irrigation ditch 6 links wide 2 feet deep course SE
- 54.70 **The left bank of the Methow river**
Set a granite stone
A pine 40 inches diameter bears N19°E 150 links
distant
No other trees in limits
As the right bank of river makes the N boundary of Indian
Allotments Numbers 27 and 28
All is described as such in the field notes furnished by the
Surveyor General of the survey of paid allotments. I shall
establish a corner on right bank for closing corner of Indian
Allotment Number 28 and meander of fractional sections 27
and 34
- 59.36 **Right bank Methow river**
Set a granite stone
No bearing trees in limits
- 80.00 Temporary corner to sections 27, 28, 33 and 34
Land mountainous
Soil on level 2nd rate on mountains 3rd rate
No timber
Mountainous land 46.36 chains
Across Indian Allotment Number 28, 20.64 chains of blank line

N on a blank line through Indian Allotment Number 28 between sections 27
and 28

- 17.50 **Right bank Methow river** and N boundary of Indian Allotment
Number 28
Set a granite stone
A pine 20 inches diameter bears S66 3/4°E 81 links
distant
No other trees in limits
**To determine distance across I set a flag on line on left bank
then measure a base line . . . the distance is . . . 4.18 chains
which added to 17.50 makes**

21.68 **To left bank Methow river**
 Set a granite stone
 No trees suitable for bearing trees in limits
 Ascend

31.88 Point of rocky spur b[ea]rs E
 Descend

35.43 **To left bank of Methow river**
 Set a granite stone . . . pits impracticable
**To determine the dist[ance] across a pine 12" in diam[eter] on line
 on right bank of the water's edge, I mark for flag . . .the dist[ance]
 is . . . 7.15 ch[ain]s which added to 35.43 makes**

42.38 **To right bank of Methow river**
 A pine 24 in[che]s diam[eter] bears N26 1/2 °E 134 l[in]ks
 dist[ant]
 Thence across point of spur 20 f[ee]t high

49.22 **To right bank Methow river**
 Set a granite stone . . . pits impracticable
 A pine 30 in[che]s diam[eter] bears S7 °E 132 l[in]ks
 dist[ant]
 No other trees in limits
**To determine the dist[ance] across, I set a flag on line on left bank
 . . . the distance is . . .21.63 ch[ain]s which added to 49.22 makes**

70.85 **To left bank of Methow river**
 Set a granite stone . . . pits impracticable
 Foot of mountain b[ea]rs N30 °W and S30 °E
 Ascend over open rock bluffs slopes SW

79.05 Trail b[ea]rs NW and SE

80.00 Set a granite stone . . . pits impracticable
 Land mountainous
 Soil 2nd rate except on mountains 4th rate
Timber scattering pines along river b[an]k
 Across Indian Allotment 24.14 ch[ain]s of blank line
Across river 32.96 ch[ain]s
 Mountainous land 9.15 ch[ain]s

N89°59'E on a random line bet[ween] sec[ti]on[s] 21 and 28

2.25 **Right bank Methow river set temp[orary] meander cor[ner] to
 determine dist[ance] across I set a flag on left bank . . . the
 dist[ance] is . . . 7.34 which added to 2.25 makes**

9.59 **To left bank Methow river, set temp[orary] meander cor[ner]**

40.00 Set temp[orary] 1/4 sec[ti]on] cor[ner]

80.29 Intersect N and S line 2 l[in]ks N of cor[ner] to sec[ti]on[s] 21, 22,
 27 and 28

Thence I run
W on a true line bet[ween] sec[tion]s 21 and 28
Over mountainous and level, begin steep descent slope SW
28.25 Foot of descent b[ea]rs NW and SE and mouth of ravine comes
from the N, ascend abruptly slope E
29.50 Wire fence b[ea]rs N and S
32.50 Top of ascent b[ea]rs N and S, thence along gradual SW slope,
along S side of level land
40.14 1/2 Set a granite stone
54.00 Top of rock bluff 50 f[ee]t high b[ea]rs N and S descend over
broken bluffs
57.25 Long bluff b[ea]rs N and S and enter field
64.05 Leave field and descend over bench 20 f[ee]t high b[ea]rs NW and
SE thence along level
65.00 A pole fence b[ea]rs N and S
65.75 D.E. Murry's house b[ea]rs S 25 l[in]ks dist[ant], has log house
and barn, 30 acres under fence and cultivated, improvements
permanent
Value \$800.00
66.10 Spring branch brackish water course S enter garden
70.25 Leave garden b[ea]rs N and S
70.70 **To left bank of Methow river**
Set granite stone
78.04 **Right bank Methow river**
Pine 12" diam[eter]
From which bears
A pine 15 in[che]s diam[eter] bears N65 1/2 °W 50 l[in]ks
dist[ant]
A pine 14 in[che]s diam[eter] bears S54 1/2 °W 38 l[in]ks
dist[ant]
80.29 The cor[ner] to sec[tion]s 20, 21, 28 and 29
Land mountainous and level
• Soil 1st rate on level, rocky 4th rate on mountains
Timber scattering pine W of river
Undergrowth sage and bunch grass
Mountainous land 35.70 ch[ain]s

N1degreeW bet[ween] sec[tion]s 20 and 21

1.13 Over mountains and level
Right bank Methow river
A pine 8" in diam[eter] for meander cor[ner] of fract[ional]
sec[tion]s 20 and 21, I mark M[eander] C[orner] on N, T 30 N S
21 on E, R 23E S 20 on W

From which bears

A pine 12 in[che]s diam[eter] bears S41 °35'E 14 l[in]ks
dist[ant]

A pine 10 in[che]s diam[eter] bears S73 3/4 °W 71l[in]ks dist[ant] .

. . . .
**To determine dist[ance] across I set a flag on line on left
bank . . . the dist[ance] is . . . 3.98** which added to 1.13
makes

- 5.11 **To the left bank of Methow river**
Set a granite stone
- 5.62 Top of bank 30 f[ee]t above river b[ea]rs E and W and trail to
[n.l.] b[ea]rs E and W
Ascend gradual slope
- 9.55 Foot of mountain b[ea]rs E and W, begin perpendicular ascent
- 38.00 Brow of bluff b[ea]rs E and W, 600 f[ee]t above river
Thence over rolling land
- 40.00 Set a granite stone
- 43.50 [. . .]'s house b[ea]rs N41 1/2E, no land cultivated or fenced
except a spring and corral improvements all of a permanent
character, house of hewn logs Value \$100.00
Begin steep descent slope NE
- 54.25 Foot of descent b[ea]rs NW and SE, thence over rolling land
- 61.00 Begin descent
- 66.00 Foot of descent and bottom of ravine 30 f[ee]t deep course
40 °E, ascend gradual SE slope
- 80.00 Set a granite stone
Land mountainous and level
Soil rocky 2nd and 3rd rate
Timber pine S of river 1.13 ch[ain]s
Undergrowth sage brush and bunch grass
Mountainous land 56.25 ch[ain]s

S89 °54'E on a random line bet[ween] section[s] 20 and 29

- 30.33 **The right bank of the Methow river**
Set temp[orary] meander cor[ner], **to determine dist[ance] across I
set a flag on line on left bank . . . the dist[ance] is . . . 8.67** which
added to 30.33 makes
- 39.00 **To left bank Methow river**
Set temp[orary] meander cor[ner]
- 63.80 **Left bank Methow river**
Set temp[orary] meander cor[ner]
**To determine dist[ance] across I set a flag on line on right
bank . . . the dist[ance] is . . . 4.20** which added to 63.80 makes

- 68.00 **To right bank Methow river**
Set temporary meander corner
- 80.00 Intersect N and S line 17 links S of corner to sections 20, 21,
28 and 29
Thence I run
S89°59'W on a true line between sections 20 and
29
Over mountains and levels along level through scattering
timber, **right bank of Methow river**
- 12.00 Pine 28" diameter marked for meander corner
From which bears
A pine 14 inches diameter bears N78°E 57 links
distance
A pine 14 inches diameter bears S63 1/2°W 69 links
distance Leave timber
- 16.20 **Left bank Methow river**, point for meander corner . . .
Begin steep ascent slope SE
- 16.79 Trail to Neva bears NE and SW
- 22.25 Top of ridge bears N and S 300 feet above the river descend
rapidly slope SW over rocky bluffs
- 39.95 Trail to Neva bears N60°W and S30°E
- 40.00 Set a granite stone
A pine 10 inches diameter bears S77 1/2°W 66 links
distance No other trees in limits
This 1/4 section corner is 40 feet above the river
Descend over rock bluffs
- 41.00 **Left bank Methow river** and foot of bluff bears NW and SE
Set a granite stone
A pine 12 inches diameter bears N42°W 73 links
distance
A pine 10 inches diameter bears S67°E 38 links
distance
- 49.67 **Right bank Methow river**
Set a granite stone
A pine 30 inches diameter bears N57 1/2°W 41 links
distance
A pine 26 inches diameter bears S84 1/2°E 175 links
distance
Enter timber bears NW and SE. Ascend
- 57.50 Top of bench 400 feet above river bears NW and SE thence
along level
- 59.75 A new house Daws homestead bears S 75 link distance
- 62.00 Road to Daws landing, Daws mining camp on N side of river
about 8 chains distance bears N

66.25 Leave level thence over rough broken ground
 Wagon road to Squaw Creek mines b[ea]rs S 50 l[in]ks dist[ant]
 course S70°W and S70°E

77.00 Leave rough and broken land then along level

80.00 The cor[ner] to sec[tion]s 19, 20, 29 and 30
 Land mountainous and level
 Soil rocky and sandy 2nd rate
 Timber scattering pine
 Mountainous land 28.38 ch[ain]s

N2°W between] sec[tion]s 19 and 20

5.14 Over mountains along level
Right bank Methow river
 Pine 24" in diam[eter] for meander cor[ner]
 From which bears
 A pine 10 in[che]s diam[eter] bears N81 1/2°W 105 l[in]ks
 dist[ant]
 A pine 14 in[che]s diam[eter] bears S59 1/2°E 33 l[in]ks
 dist[ant]
To determine dist[ance] across I set a flag on line on left bank . . .
the dist[ance] is . . . 3.24 ch[ain]s which added to 5.14 makes

8.35 **To left bank Methow river**, the point for triangulation and meander
 cor[ner] falls on a granite shelf 30 f[ee]t above the water which I
 mark for meander cor[ner]
 From the cor[ner] b[ea]rs
 Pine 24 in[che]s diam[eter] S83°20'E 250 l[in]ks dist[ant] . .
 . .
 Foot of mountain b[ea]rs E and W, begin perpendicular ascent
 slope S

24.00 Trail to Monetor Mines

24.50 A tunnel 30 f[ee]t deep b[ea]rs W 60 l[in]ks dist[ant]

24.75 A shaft has been sunk 20 f[ee]t that b[ea]rs E 25 l[in]ks dist[ant],
 there has been about \$400.00 expended here in prospecting but
 does not show much mineral

39.25 Ravine 15 f[ee]t deep 2.30 ch[ain]s wide course S40°W

40.00 Set a granite stone

80.00 Set a granite stone
 Land mountainous, level
 Soil 2nd rate
 Undergrowth sage and bunch grass
 Timber pine S of river
 Mountainous land 71.62 ch[ain]s



N89°58'W on a random line between] sections 19 and 30

- 5.50 **Right bank Methow river**
Set temp[orary] meander cor[ner], to determine dist[ance] across I
set a flag on line of left bank . . . the dist[ance] is . . . 4.47 which
added to 5.50 makes
- 9.97 **To left bank Methow river**
Set temp[orary] meander cor[ner]
- 45.27 **Left bank Methow river**
Set temp[orary] meander cor[ner], to determine dist[ance] across, I
set a flag on line on right bank . . . the dist[ance] is . . . 3.23
ch[ain]s which added to 45.27 makes
- 48.50 **To right bank Methow river**
Set temp[orary] meander cor[ner]
- 78.72 Intersect W b[oun]d[ary] of the T[o]w[nshi]p 13 l[in]ks S of the
cor[ner] to sec[ti]on]s 19, 24, 25 and 36
Thence I run
S89°52'E on a true line bet[ween] sec[ti]on]s 19 and 30
Over mountains through heavy timber and dense undergrowth,
begin gradual descent slope NE
- 2.03 Wire fence b[ea]rs N and S enter [6??] field
- 3.60 Enter plowed land b[ea]rs N and S
- 8.80 Leave plowed land b[ea]rs NE and SW
- 11.08 Rail fence b[ea]rs N and S
- 12.10 Black Canyon road course S30°W and N30°E
- 13.30 Enter dense undergrowth b[ea]rs N and S
- 14.30 Wagon road to Squaw Creek Mines b[ea]rs N30°W and
S50°E and Black Canyon Creek 25 l[in]ks wide 2 f[ee]t
deep course N60°E
- 16.80 Leave dense undergrowth, b[ea]rs NE and SW and top of bench
30 f[ee]t above creek b[ea]rs NE and SW
- 17.05 Paul Schultz Cabin b[ea]rs S 10 l[in]ks dist[ant]
- 21.70 Water ditch to [n.l.] which has been used for grinding quartz
b[ea]rs N45°W 2.00 ch[ain]s dist[ant], descend slope NE
- 30.22 **Right bank Methow river**
Set a granite stone
From which bears
Pine 24 in[che]s diam[eter] N17°W 50 l[in]ks dist[ant]
Pine 30 in[che]s diam[eter] S24 1/2°E 50 l[in]ks dist[ant] . .
- 33.45 **Left bank Methow river**
A granite stone . . . in place, I mark for meander cor[ner]
No trees within limits, begin steep ascent slope SW
- 38.72 Set a granite stone . . . this cor[ner] is 275 f[ee]t above Methow

- river
- 41.72 Top of ascent b[ea]rs N and S 300 f[ee]t above Methow river,
begin descending slope SE
- 66.00 Foot of descent b[ea]rs NE and SW, thence along level
- 68.75 **Left bank Methow river**
Set a granite stone
From which b[ea]rs
Cottonwood 4 in[che]s diam[eter] S33°W 54 l[in]ks dist[ant]
.
Cottonwood 6 in[che]s diam[eter] N19 3/4°E 25 l[in]ks
dist[ant]
- 73.22 **Right bank Methow river**
Set a granite stone
From which b[ea]rs
Pine 30 in[che]s diam[eter] S10 1/2°E 94 l[in]ks dist[ant]
.
Pine 28 in[che]s diam[eter] S26°W 150 l[in]ks dist[ant]
- 74.22 Top of bank 50 f[ee]t above river b[ea]rs NE and SW
- 78.72 The cor[n]er to sec[tion]s 19, 20, 29 and 30
Land mountainous and level
Soil 10.08 ch[ain]s M W 1st rate, balance rocky 3rd rate
Timber pine, fir and cottonwood along Black Canyon Creek and
river bank
Dense undergrowth 3.50 ch[ain]s, Alder Willow and Cottonwood
Mountainous land and dense undergrowth 37.80 ch[ain]s

N between] sec[tion]s 19 and 24

- Over mountains through timber over gradually sloping ground
descend into ravine 30 f[ee]t deep
- 9.00 Bottom of ravine course S48°E ascend to
- 10.00 Top of ridge b[ea]rs NW and SE, descend gradually slope NE
- 12.00 Wagon road to Squaw Creek Mines b[ea]rs NW and SE
- 20.00 Brow of ravine 75 f[ee]t deep descend
- 21.00 Bottom of ravine course NE and SW ascending abruptly slope SE
- 22.20 Top of ascent b[ea]rs NW and SE descend gradually slope NE
- 30.50 Brow of abrupt descent b[ea]rs NW and SE descend abruptly
slope NE
- 37.56 Wagon road to Squaw Creek Mines and mouth of Methow river
b[ea]rs NW and SE
- 37.93 **Right bank of the Methow river**
Set a granite stone
From which bears
Fir 5 in[che]s diam[eter] S48°55'E 130 l[in]ks dist[ant]

Pine 24 in[che]s diam[eter] S88 1/2 °W 250 l[in]ks dist[ant] .

 40.00 Point for 1/4 sec[ti]on cor[ner] falls in Methow river, **to determine dist[ance] across I set a flag on line on left bank of the river . . . the dist[ance] is . . . 3.87 ch[ain]s** which added to 37.93 ch[ain]s makes
 41.80 **To left bank of Methow river**
 For meander cor[ner] a cottonwood tree 6 in[ches] in diam[eter] on line
 From which bears
 Cottonwood 2 in[che]s diam[eter] N82 1/4 °E 31 l[in]ks dist[ant]
 Pine 14 in[che]s diam[eter] N35 1/2 degree W 6 l[in]ks dist[ant]
 .
 Foot of mountain ascend rapidly slope SW
 45.80 Ravine 1 1/2 ch[ain]s wide 50 f[ee]t deep course NE and SW
 54.40 Ravine 100 ch[ain]s wide 20 f[ee]t deep course NE and SW
 59.50 A house in R 22E b[ea]rs N71 °W
 76.70 Brow of ravine b[ea]rs NE and SW descend in ravine slope NW
 80.00 Set a granite stone
 No bearing trees in limits
 A house in range 22E b[ea]rs S62 3/4 W
 Land mountainous and level
 Soil thin and stony 2nd and 3rd rates
 Timber, a few scattering pine and cottonwood
 Mountainous land 38.20 ch[ain]s

N bet[ween] sec[ti]on[s] 13 and 18

Over mountains through timber descending abruptly slope NW into ravine
 6.25 Bottom of ravine 200 f[ee]t deep course NE and SW, ascend steep side of ridge slope S
 14.00 Top of ridge b[ea]rs NE and SW 800 f[ee]t above river descend abruptly slope NE enter scattering pine timber
 39.00 Foot of mountain thence along level flat
 40.00 Set a granite stone
 From which b[ea]rs
 Red fir 24 in[che]s diam[eter] S32 °50'E 284 l[in]ks dist[ant]

 Pine 26 in[che]s diam[eter] S22 °W 247 l[in]ks dist[ant]
 43.19 Brow of abrupt descent to Methow river b[ea]rs E and W leave flat and descend abruptly slope N
 44.34 **Left bank Methow river**

A granite stone . . . pits impracticable
From which bears
Red fir 24 in[che]s diam[eter] S30°E 40 l[in]ks dist[ant] . . .

Cottonwood 6 in[che]s diam[eter] N89°20'W 28 l[in]ks
dist[ant]

To determine dist[ance] across I set a flag on line on right bank . .
. the dist[ance] is . . . 4.60 ch[ain]s which added to 44.34 makes

48.94

To right bank Methow river

Set a granite stone . . . pits impracticable

From which bears

Red fir 18 in[che]s diam[eter] N82 1/2°W 245 l[in]ks
dist[ant]

Pine 30 in[che]s diam[eter] S79 1/2°E 149 l[in]ks dist[ant] .

. . . .

Leave scattering pine timber, ascend steep river bank

50.00

Top of bank 30 f[ee]t high b[ea]rs E and W thence along level

80.00

Set a granite stone

No bearing trees in limits

Land mountainous and level

Soil 1st rate on flats, 4th rate in mountains

Timber scattering pine and red fir 2nd class

Undergrowth cottonwood and alder 30 l[in]ks on each side of the

Methow river 60 ch[ain]s

Mountainous land 41.21 ch[ain]s

N89°57'W on a random line bet[ween] sec[tion]s 7 and 28

40.00 Set temp[orary] 1/4 sec[tion] cor[ner]

46.72 **Left bank Methow river**

Set temp[orary] meander cor[ner] **to determine dist[ance] across. I
set a flag on line on right bank . . . the dist[ance] is . . . 7.15**

which added to 46.72 makes

53.87 **To right bank Methow river, set temp[orary] meander cor[ner]**

78.60 Intersect W b[oun]d[ary] of t[ow]nsh[ip] 26 l[in]ks S of cor[ner] to
sec[tion]s 7, 12, 13 and 18

Thence I run

S89°46'E on a true line bet[ween] sec[tion]s 7 and 18

Over mountains and along level

2.40 Enter plowed land b[ea]rs N and S

10.80 Leave plowed land extends S 6.00 ch[ain]s and N 5.00 ch[ain]s.

About 100 acres under cultivation,

Owner was drowned in the Methow river

Improvements are of a permanent character, value \$300.00

- 11.30 Brow of bench 100 feet above the river bears N and S leave and descend abruptly slope E
- 19.05 Trail along river bottom bears NE and SW
- 21.03 Enter dense undergrowth bears N and S
- 21.55 Log house bears S 25 links distant belongs to the above estate value \$50.00
- 24.53 **Right bank Methow river**
Set a granite stone
From which bears
Pine 16 inches diameter N59 1/2°E 55 links distant . . .
. . .
Pine 18 inches diameter N14 3/4°W 62 links distant . . .
. . .
- 31.88 **Left bank Methow river**
Set a granite stone
From which bears
Pine 12 inches diameter N40°E 90 links distant
Pine 28 inches diameter S45°W 160 links distant
Foot of mountains bears N and S, begin ascent of Buck-horn Mountain slope W
- 38.60 Set a granite stone
From which bears
Pine 14 inches diameter S33 1/4°E 145 links distant . . .
. . . .
No other tree in limits
- 48.60 Bottom of ravine 120 feet deep 4.00 chains wide course S
- 54.85 Head of ravine bears SW
- 71.10 Head of ravine bears SW
- 75.20 Trail bears N and S
- 78.60 The corner to sections 7, 8, 17 and 18
Land mountainous and level
Soil 1st rate 11.00 chains on W, balance 3rd rate
Timber scattering pine
Mountainous land 76.42 chains

N89°46'W on a random line between sections 6 and 7

- 40.00 Set temporary 1/4 section corner
- 50.35 **Left bank Methow river**
Set temporary meander corner, to determine the distance across, I set a flag on line on right bank . . . the distance is . . .
3.97 chains which added to 50.35 chains makes
- 54.32 **Right bank Methow river**
Set temporary meander corner

- 78.46 Intersect W b[oun]d[ar]y of t[o]w[nshi]p 21 l[in]ks N of the cor[ner]
to sec[tion]s 1, 6, 7 and 12
Thence I run
S69°55'E on a true line bet[ween] sec[tion]s 6 and 7
Over mountains through timber, begin ascent of gradual slope E
- 12.40 Indian trail b[ea]rs N and S
- 14.00 Foot of slope b[ea]rs N and S, enter pine timber b[ea]rs N and S
- 24.14 **The right bank of Methow river**
Set a granite stone
From which bears
Pine 36 in[che]s diam[eter] S80 1/4°W 53 l[in]ks dist[ant]
Pine 36 in[che]s diam[eter] S12°W 14 l[in]ks dist[ant]
- 28.11 **Left bank Methow river**
Set granite stone
Begin abrupt ascent slope W
- 38.46 Set a granite stone
From which bears
Pine 36 in[che]s diam[eter] S52 1/2°W 170 l[in]ks dist[ant]
Pine 18 in[che]s diam[eter] S57°E 171 l[in]ks dist[ant]
Ascend rapidly over rough and broken ground slope W
- 78.46 The cor[ner] to sec[tion]s 5, 6, 7 and 8
Land mountainous and broken
Soil 1st rate on W, balance 2nd rate
Timber pine W of Methow river
Mountainous land 50.35 ch[ain]s

W bet[ween] sec[tion]s 6 and 31

- Over mountains through timber ascend steep mountain side slope E
- 13.00 Top of ridge barometric elevation at this point is 4, 150 f[ee]t
Descend abruptly into ravine
- 20.00 Bottom of ravine 200 f[ee]t deep course NE and SW ascend abruptly
- 25.00 Top of ridge b[ea]rs N and S descend abruptly slope SW
- 32.16 Pine 16 in[ches] diam[eter] on line I mark with 2 notches on E and W sides
- 40.00 Pine 18 in[ches] in diam[eter] for 1/4 sec[tion] corner. I mark 1/4 S on N side
From which b[ea]rs
Pine 24 in[che]s diam[eter] N57 1/2°E 29 l[in]ks dist[ant]

- 68.31 Pine 24 in[che]s diam[eter] N74°W 20 l[in]ks dist[ant]
Pine 20 in[ches] in diam[eter] on line, l mark with 2 notches on E and W sides
- 79.19 Set a granite stone
From which bears
Red fir 12 in[che]s diam[eter] N13 1/2°E 15 l[in]ks dist[ant] .
. . . .
Red fir 16 in[che]s diam[eter] S13°E 100 l[in]ks dist[ant]
. . . .
Red fir 8 in[che]s diam[eter] S45 1/2°W 51 l[in]ks dist[ant] .
. . . .
Pine 10 in[che]s diam[eter] N30°W 80 l[in]ks dist[ant]
Barometric elevation at this point is 2900 f[ee]t
Land mountainous
Soil rocky 3rd and 4th rate
Timber scattering pine and fir
Mountainous land 79.19 ch[ain]s

General Description

This Township contains nearly every variety of land from bottom and bench land to mountains and the soil ranges from gravel to first class sandy loam. **The land adjoining the Columbia and Methow Rivers is sandy and in some localities very poor. Most of the land, however, is capable of producing excellent fruit, alkali can be found in nearly every portion of the township, but not in sufficient quantities to be injurious to the soil.** The low mountains are covered with small sage brush and an abundant growth of nutritious grass which is excellent for grazing purposes. Some of the small flats on the benches are capable of producing good crops without irrigation. Pine and fir timber abound along the north and northwest and in the southwest portions of this township and is suitable for building and other purposes. There are two mines near the center of the southwest quarter of section twenty, which are being worked and are producing a good quality of gold bearing ore which assays about \$140.00 per ton. There are several other mining locations in this Township which are not being worked except one by Schultz and Chesney in section thirty. **This township is well watered by the Methow and Columbia rivers and numerous springs:** there is a post office and general store and a large hotel at Neva at the Mouth of the Methow River on the left bank in section thirty six and its junction with the Columbia River. There is one schoolhouse in the township in section thirty five. There are four settlers in each of sections thirty and thirty six and two each in section twenty, twenty five, eleven and twenty nine, and one each in sections two, four, twenty eight and thirty five. A portion of Indian Allotments N[umber]s twenty four, twenty five, twenty seven and twenty eight adjoin the Methow and Columbia Rivers on the south in the

southeast portion of this township. The mountains are high in the southwest and a high mountain ridge runs diagonally across the Township from the southeast to northwest and along the north boundary the formation is Granite, Gneise and Trap rock and appears to be strongly mineralized with Iron oxides from the sulphites and pyrites of Iron and occasionally stains of copper:

T 29N, R 22E on the south is sparsely settled, about one fourth of which is arable land. The balance broken and mountainous and fit only for grazing purposes. It should be subdivided.

T 30N, R 22E on the west has some settlers in the east and northeast portions, the balance is rugged mountains. Squaw Creek Mining Camp is near section twenty six, at the present time has a population of one to two hundred prospectors and miners. T[ownship] 31N, R 23E has a few settlers. This township is mountainous and broken, fir chiefly for grazing purposes. These townships, however, should be subdivided.

Moses M. Emerson
U.S. Deputy Surveyor

(Emerson 1896b)

TOWNSHIP 29N, RANGE 23E, W.M.

N on a blank line bet[ween] sec[tion]s 1 and 2

84.64 Intersect N b[oun]d[ar]y of t[ownshi]p 16 l[in]ks E of the
M[eander] C[orner] to frac[tional] sec[tion]s 1 and 36 on right
bank of Methow river

(Worthington 1896b)

TOWNSHIP 30N, RANGE 22E, W.M.

E on a random line bet[ween] sec[tion]s 13 and 24

- 40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
80.20 I am 40 ch[ains] S of cor[ner] to sec[tion]s 13 and 24 on East boundary, which is a granite marked with 3 notches on N and S faces with pits and mound of stone and earth.
Thence I run
S89°43'W on a true line bet[ween] sec[tion]s 13 and 24
Descend mountain 300 f[ee]t to
11.21 **Left bank of Methow river.**
Set a granite
From which bears
A pine 18 in[che]s diam[eter] N 12 l[in]ks dist[ant]
A pine 11 in[che]s diam[eter] S 1/2degreeW 86 l[in]ks dist[ant]
11.70 **Waters edge, left bank.**
Ford the river, water 30 in[ches] deep at this time, bottom rocky.
14.00 **Waters edge right bank.**
14.97 **High water mark right bank.**
Set a granite
From which bears
A pine tree 10 in[che]s diam[eter] S26 1/2°W 139 l[in]ks dist[ant]
No other live tree in limits
Ascend steep bank 40 f[ee]t to
17.20 Top of bank.
Telephone line b[ea]rs NW and SE.
Ascend toward mountain.
17.60 State road runs parallel to telephone line.
25.52 Squaw Creek - Methow Road runs N20°E and S20°W.
Ascend steep mountain.
35.20 Foot of rock ledge b[ea]rs N and S 200 f[ee]t high.
38.20 Top of ledge.
40.10 Set a granite
47.70 Top of ridge 1000 f[ee]t above Methow river.
69.20 Enter quaking aspen thicket.
70.10 Squaw Creek 10 l[in]ks wide runs S70°E
I am here about 300 f[ee]t below top of ridge at 47.70 ch[ain]s.
Ascend along N slope of m[oun]t[ain].
70.70 Ruins of old concentrator S 1 ch[ain] dist[ant].
73.20 Road b[ea]rs S70°E and N70°W.

80.20

Sec[ti]on cor[ner] to 13, 14, 23 and 24

Surface mountainous.

Soil 2nd rate.

Timber a few scattering pines along the Methow river and Squaw C[ree]k.

Brush quaking asp[ens] along Squaw C[ree]k.

Mountainous lands and dense brush 65.88 chains.

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(Hermans 1901b)

TOWNSHIP 31N, RANGE 22E, W.M.

North between sections 31 and 36

- Over mountains and level
Along level
- 1.00 Brow of bench bears E and W 250 feet above Methow River
Descend abruptly slope south
- 9.50 Foot of bench bears E and W
Thence over level
- 10.37 Wire fence bears E and W
- 13.50 Top of bench 20 feet high, course NE and SW
Descend slope NW
- 14.50 Foot of bench bears NE and SW
Thence along level
- 18.25 Brow of bench 30 feet above Methow River bears NE and SW
Descend NW slope
- 18.63 **Right bank of the Methow River**
Set a granite stone
A pine 20 inches diameter bears S43 1/4°W 102 inches
distance
A pine 30 inches diameter bears N24 1/4°E 23 inches
distance
**To determine the distance across I set a flag on line on left bank
. . . the distance is . . . 7.00 chains which added to 18.63
makes**
- 25.63 **To left bank of Methow River**
Set a granite stone
A pine tree 18 inches diameter bears N67 3/4°E 75
inches distance
A cottonwood 6 inches diameter bears S12 1/4°W 44
inches distance
Leave scattering timber
- 25.78 Trail bears NE and SW and
Foot of steep gravel bluff bears NE and SW
Ascend abrupt SE slope
- 31.18 Top of gravel bluff 200 feet above river bears NE and SW
Thence over level
- 38.43 Foot of steep bluff bears N15°E and S15°W
Ascend abrupt SE slope
- 40.00 Set a granite stone
- 43.07 Top of ridge 400 feet above the Methow River
Ascend NE slope
- 46.72 Ravine 90 feet deep course S45°E

55.67 Ascend abrupt SW slope
 Brow of bench bears E and W
 Thence along level
 61.67 Foot of hill bears E and W
 Ascend S slope
 65.67 Top of hill 40 feet high bears E and W: Descend
 80.00 Set a granite stone
 Land mountainous and level
 Soil sandy loam and gravelly-2d rate
 Timber on S pine and fir 2d class
 Mountainous land 56.30 chains

North 1degreeW between sections 35 and 36

Over mountains and level
 Ascend S slope
 .30 Top of spur bears NE and SW 19 feet above section corner
 Descend abrupt N slope.
 Enter scattering timber
 21.75 Trail from Columbia River to Silver and upper Methow follows the
 river
 25.23 Brow of bench 20 feet above river
 25.24 **Right bank of the Methow River**
 Set a granite stone
 A fir 12 inches diameter bears N81°W 68 inches distance

 A pine 18 inches diameter bears N47 1/2°E 98 inches
 distance
To determine the distance across I set a flag on line on left bank
. . . the distance is . . . 4.66 chains which added to 25.24 makes
 30.30 **To left bank of the Methow River**
 Set a granite stone
 A pine 8 inches diameter bears S65 1/2°E 63 inches
 distance
 Leave scattering timber
 Ascend gradual SE slope
 37.75 Trail up the Methow River bears NW and SE
 Begin abrupt ascent slope S
 40.00 Set a granite stone . . . pits impracticable
 46.50 Brow of bench bears E and W 200 feet above the river: Thence
 along gradual S slope
 53.50 Foot of hill bears E and W: Ascend abruptly
 62.50 Brow of bench 400 feet above the River bears SE and NW
 Thence over gradual ascent

77.00 Foot of Bald Knob M[oun]t[ain] bears NE and SW
 80.00 Set a granite stone
 Land mountainous
 Soil 1st rate sandy loam on benches, bal[ance] 3rd rate and rocky
 Timber scattering pine S of River 2d class
 Mountainous land 50.75 ch[ain]s

East on a random line bet[ween] sec[tion]s 26 and 35

27.50 **Right bank of the Methow River**
 To determine the dist[ance] across the river I set a flag on line on
 left bank . . . the dist[ance] is . . . 8.91 ch[ain]s which added to
 27.80 ch[ain]s makes

36.71 **To left bank of the Methow River**
 40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
 79.94 Intersect the N and S line at the cor[ner] of sec[tion]s 25, 26, 35
 and 36
 Thence I run
 West on a true line bet[ween] sec[tion]s 26 and 35
 Over mountains
 Along gradual S slope

9.15 Top of bluff b[ea]rs NE and SW 800 feet above the Methow River
 Descend abruptly NW slope

18.35 Trail follows the river NW and SE
 31.15 Bottom of dry ravine b[ea]rs N and S
 Ascend abruptly

35.50 Top of spur 200 feet above the river
 Descend SW slope

39.99 1/2 Set a granite stone . . . pits impracticable
 40.28 **Left bank of the Methow River**
 A red fir tree 12 in[ches] diam[eter] for Meander cor[ner]
 A pine 20 in[che]s diam[eter] bears S39°W 15 l[in]ks
 dist[ant]
 A pine 10 in[che]s diam[eter] bears N2 1/2°E 103 l[in]ks
 dist[ant]

52.19 **Right bank of the Methow River**
 A granite stone in place . . .
 A fir 10 in[che]s diam[eter] bears N59°W 44 l[in]ks dist[ant]

 A pine 20 in[che]s diam[eter] bears S76 1/2°W 96 l[in]ks
 dist[ant]
 Ascend NE slope

53.50 Top of bank 30 f[ee]t above the river
 Thence along level

68.50 Foot of hill: thence over rock bluff
 72.10 Trail bears NW and SE
 79.99 The cor[ner] of sec[ti]on[s] 26, 27, 34 and 35
 Land mountainous and level
 Soil 1st rate on level bal[ance] 3rd rate and rocky
 Timber scattering pine along river 2d class
 Mountainous land 55.84 ch[ain]s

N0°2'W bet[ween] sec[ti]on[s] 26 and 27

.42 **Right bank of the Methow River**
 Set a granite stone
 A fir 12 in[che]s diam[eter] bears N50°W 52 l[in]ks dist[ant]

 A pine 10 in[che]s diam[eter] bears N13 1/2°E 16 l[in]ks
 dist[ant]
To determine the dist[ance] across I set a flag on line on left bank
. . . the dist[ance] is . . . 5.36 ch[ain]s which added to .42 makes
 5.78 **To left bank of Methow River**
 Set a granite stone
 A pine 30 in[che]s diam[eter] bears S67 1/2°W 17 l[in]ks
 dist[ant]
 A pine 18 in[che]s diam[eter] bears S49°E 70 l[in]ks
 dist[ant]
 Ascend abrupt SE slope
 6.90 Top of bank 31 f[ee]t above the river b[ea]rs NW and SE
 Thence gradual S slope
 15.88 Foot of granite bluff bears SE and NW
 19.25 Top of granite bluff 160 f[ee]t high b[ea]rs SW and NE
 Ascend abrupt SE slope
 29.75 Brow of bench bears N60°W S60°E 525 f[ee]t above
 the river
 Thence over table land, ascend gradual SE slope
 40.00 Set a granite stone
 59.80 Trail from Columbia River to upper Methow bears NW and SE
 76.75 Foot of Bald Knob M[oun]t[ain] bears NW and SE
 Begin ascent rough and broken ground
 Enter aspen thicket bears NE and SW
 79.50 Leave aspen thicket bears NE and SW
 80.00 Set a granite stone
 Land mountainous and level
 Soil 1st rate on table land bal[ance] 4th rate and rocky
 Timber scattering pine along the river
 Mountainous land 18.24 ch[ain]s

E on a random line between] section]s 22 and 27

Left bank of the Methow River

To determine the dist[ance] across I set a flag on line on left bank

. . . the distance is . . . 4.03 ch[ain]s set temp[orary] M[eander]

C[orner]

40.00 Set temp[orary] 1/4 sec[ti]on] cor[ner]

79.71 Intersect the N and S line at the cor[ner] of sec[ti]on]s 22, 23, 26
and 27

Thence I run

W on a true line bet[ween] sec[ti]on]s 22 and 27

Descend abrupt SW slope

14.00 Brow of ravine b[ea]rs SE and NW

16.70 Trail from Columbia River to upper Methow b[ea]rs SE and NW

17.50 Bottom of ravine course SW 80 f[ee]t deep

20.75 Brow of ravine b[ea]rs NE and SW

Thence over table land

39.85 1/2 Set a granite stone

47.50 Brow of bluff b[ea]rs N and S 800 f[ee]t above river

Descend abrupt W slope

66.90 Foot of bluff bears N and S

Thence over level

73.50 Top of bank 30 f[ee]t above the river b[ea]rs NW and SE

75.68 **Left bank of the Methow River**

Set a granite stone

A pine 24 in[che]s diam[eter] bears S35 1/2 °E 56 l[in]ks
dist[ant]

A pine 12 in[che]s diam[eter] bears N64 1/2 °W 75 l[in]ks
dist[ant]

80.46 **The Meander cor[ner] of frac[ti]on]al] sec[ti]on]s 21 and 28 on right
bank of Methow River**

Land mountainous and level

Soil 1st rate on table land and level bal[ance] 4th rate

Timber pine and fir along river, 2d class

Mountainous land 40.15 ch[ain]s

N0°3'W bet[ween] sec[ti]on]s 21 and 22

Over mountains

From the Meander cor[ner] of frac[ti]on]al] sec[ti]on]s 21 and 28 on
right bank of Methow River, I offset W 1.00 ch[ain]s thence N3'W
8.31 chains thence E 1.75 to line and to

Right bank of Methow River

8.31 Set a granite stone

A pine 18 in[che]s diam[eter] bears N61 °E 45 l[in]ks
 dist[ant]
 A pine 12 in[che]s diam[eter] bears N86 1/4 °W 13 l[in]ks
 dist[ant]
 18.60 **Right bank Methow River**
 Set a granite stone
 A pine 14 in[che]s diam[eter] bears S39 °E 21 l[in]ks
 dist[ant]
 A pine 18 in[che]s diam[eter] bears N45 °W 116 l[in]ks
 dist[ant]
**To determine the dist[ance] across the river I set a flag on line on
 left bank . . . the dist[ance] is . . . 18.94 ch[ain]s** which added to
 18.60 makes
 37.54 **To left bank of Methow River**
 Set a granite stone
 A pine 18 in[che]s diam[eter] bears S71 °E 55 l[in]ks
 dist[ant]
 A pine 24 in[che]s diam[eter] bears N22 1/2 °W 49 l[in]ks
 dist[ant]
 Enter dense undergrowth
 38.50 Leave dense undergrowth b[ea]rs NW and SE
 Begin ascent steep SW slope
 40.00 Set a granite stone
 60.90 Top of bluff b[ea]rs NW and SE 400 f[ee]t above the river
 Descend abrupt NW slope
 67.70 Bottom of ravine 68 feet below top of bluff course SW
 Ascend abrupt SE slope
 80.00 140 feet above bottom of ravine
 Set a granite stone
 Land mountainous
 Soil 2d rate and sandy
 Timber pine along river
 Undergrowth alder, will and service
 Mountainous and dense undergrowth 42.46 ch[ain]s

N89 °58'E on a random line bet[ween] sec[ti]on[s] 16 and 21

40.00 Set temp[orary] 1/4 sec[ti]on] cor[ner]
 43.31 **Right bank of Methow River set temp[orary] M[eander] C[omer]**
To determine the dist[ance] across I set a flag on line on left bank
. . . the dist[ance] is . . . 4.29 which added to 43.31 makes
 47.58 **Left bank of Methow River.** Temp[orary] M[eander] C[orner]
 80.00 Intersect the N and S line at the cor[ner] of sec[ti]on[s] 15, 16, 21
 and 22

Thence I run
 S89°58'W on a true line bet[ween] sec[ti]on[s] 16 and 21
 Over mountains and level and through timber
 Begin descent SW slope
 14.00 Brow of bluff bears N and S, 400 f[ee]t above the Methow River
 Descend abrupt W slope
 28.60 Foot of bluff bears N and S
 32.42 **Left bank of Methow River**
 Set a granite stone . . . pits impracticable
 36.69 **Right bank of Methow River**
 Set a granite stone . . . pits impracticable
 A pine 36 in[che]s diam[eter] bears S35°E 9 l[in]ks dist[ant]

 A pine 10 in[che]s diam[eter] bears N5°E 9 l[in]ks dist[ant] .
 . . .
 Ascend
 38.33 Top of bank 25 f[ee]t above the river bears S10°E
 Enter Pearson's field
 38.70 Leave grain field bears S60°W
 40.00 Set a granite stone
 54.80 Fence bears S10°E: and leave Pearson's field has about
 90 acres under fence 20 acres under cultivation: Improvements
 are of a permanent character value \$500
 54.95 Trail and State Wagon Road location from Columbia River to
 Upper Methow b[ea]rs S10°E and N10°W
 55.50 Foot of mountain S10°E N10°W
 Enter open timber
 Ascend abrupt SE slope over rough and broken ground
 80.00 The cor[ner] of sec[ti]on[s] 16, 17, 20 and 21
 Land mountainous and level
 Soil 1st rate on level bal[ance] 3rd rate and rocky
 Timber pine and fir 2d class
 Mountainous land 54.64 ch[ain]s

N89°58'E on a random line bet[ween] sec[ti]on[s] 9 and 16

9.86 **Right bank of the Methow River**
 Set temp[orary] Meander cor[ner]
 To determine the dist[ance] across I set a flag on line on left bank
 . . . the dist[ance] is 9.22 ch[ain]s which added to 9.86 makes
 19.08 **Left bank of Methow River**
 Set temp[orary] Meander cor[ner]
 40.00 Set temp[orary] 1/4 sec[ti]on cor[ner]
 80.08 Intersect the N and S line 13 l[in]ks N of the cor[ner] of sec[ti]on[s]

- 9, 10, 15 and 16
 Thence I run
 N89°56'W bet[ween] sec[ti]on[s] 9 and 16
 Over mountains
 Descend
- 1.08 Bottom of ravine, 20 feet below sec[ti]on] cor[ner] course south
 Ascend abrupt SE slope
- 14.50 Point of spur b[ea]rs E and W: thence along abrupt and broken S
 slope
- 22.00 Top of granite spur bears NE and SW
 Descend along abrupt and broken SW slope
- 40.00 Set a granite stone
 Ascend E slope
- 45.04 Top of granite bluff bears N and S
- 53.24 Foot of granite bluff bears N and S
 375 feet below top b[ea]rs N and S
 Descend gradual slope W
- 61.00 **Left bank of Methow River**
 Set a granite stone
 A pine 24 in[che]s diam[eter] bears S29°W 24 l[in]ks
 dist[ant]
 A cottonwood 14 in[che]s diam[eter] bears N16 3/4°W 14
 l[in]ks dist[ant]
 This line crosses an island in the river which is 7.00 ch[ain]s long
 by 2.00 ch[ain]s wide 4.00 ch[ain]s S of line 3 ch[ain]s N and is
 subject to inundation. The soil is 4th rate rocks and gravel,
 therefore I extended the triangulation from bank to bank of the
 river. **The W channel is 2.00 ch[ain]s in width shallow and rocky**
- 70.22 **Right bank of Methow River**
 Set a granite stone
- 72.00 Samuel John's house bears N 2.00 ch[ain]s dist[ant]
- 72.33 Wire fence b[ea]rs S60°E
- 73.00 Foot of bluff b[ea]rs SE and NW
 Ascend over rough and broken ground
- 80.08 The cor[ner] of sec[ti]on[s] 8, 9, 16 and 17
 Land mountainous
 Soil 1st rate along the river flats bal[ance] 3rd rate and rocky
 Mountainous land 60.32 ch[ain]s

N0°4'W bet[ween] sec[ti]on[s] 8 and 9

- Over mountains
 Descend NE slope
- 2.94 Wire fence bears S60°E

3.50 Foot of descent 50 f[ee]t below sec[tion] cor[ner]
 Enter Samuel John's field
 Thence over level soil 1st rate sandy loam

16.40 **Right bank of Methow River**
 Set a granite stone
 A pine 10 in[che]s diam[eter] bears N56°20'E 138 l[in]ks
 dist[ant]
**To determine the dist[ance] across the river I set a flag on line on
 left bank . . . the dist[ance] is . . . 3.89 ch[ain]s** which added to
 16.40 makes

20.29 **Left bank of the Methow River**
 Set a granite stone
 A pine 24 in[che]s diam[eter] bears S45°W 152 l[in]ks
 dist[ant]
 A pine 30 in[che]s diam[eter] bears S89°E 56 l[in]ks
 dist[ant]

21.90 Trail bears E and W

25.00 Foot of spur b[ea]rs E and W
 Ascend E slope

28.25 Top of spur 100 feet above the river b[ea]rs E and W
 Descend

31.50 Bottom of ravine 90 feet deep course W and
 Stock trail b[ea]rs NE and SW
 Ascend over abrupt rough and broken ground

40.00 Set a granite stone

75.00 Top of bluff 800 f[ee]t above the river
 Descend abrupt NW slope

80.00 Set a granite stone
 A pine 20 in[che]s diam[eter] bears N53 1/2°E 68 l[in]ks
 dist[ant]
 A cabin b[ea]rs N12 1/4°E 20 ch[ain]s dist[ant]
 Land mountainous
 Soil 1st rate on level bal[ance] 3rd rate and rocky
Timber scattering pine and cottonwood along the river bank
 Mountainous land 58.50 ch[ain]s

E on a random line bet[ween] sec[tion]s 8 and 17

40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
 58.72 **Right bank of Methow River**
 Set temp[orary] Meander corner
**To determine the dist[ance] across I set a flag on line on left bank
 . . . the dist[ance] is . . . 4.91 ch[ain]s** which added to 58.72
 makes

- 63.63 **To left bank of Methow River**
 Set temp[orary] Meander cor[ner]
To determine the dist[ance] across I set a flag on line on right bank . . . the dist[ance] is . . . 3.90 ch[ain]s which added to 70.63 makes
- 74.53 **To right bank of Methow River**
 Set temp[orary] Meander cor[ner]
- 79.97 Intersect the N and S line at the cor[ner] of sec[tion]s 8, 9, 16 and 17
 Thence I run
 W on a true line bet[ween] sec[tion]s 8 and 17
 Over mountains through timber
 Ascend E slope
- 2.00 Top of granite bluff 70 f[ee]t above the cor[ner]
 Descend over rock bluff b[ea]rs SE and NW
- 5.44 **Right bank of Methow River 100 feet below top of bluff**
 Set a granite stone
 A pine 8 in[che]s diam[eter] bears N31 °W 29 l[in]ks dist[ant]
 A pine 6 in[che]s diam[eter] bears S26 1/2 °E 28 l[in]ks dist[ant]
- 9.34 **Left bank of Methow River**
 Set a granite stone
 A pine 24 in[che]s diam[eter] bears N6 3/4 °W 61 l[in]ks dist[ant]
 A pine 14 in[che]s diam[eter] bears S27 1/2 °E 50 l[in]ks dist[ant]
- 16.34 **Left bank of Methow River**
 Set a granite stone
 A pine 36 in[che]s diam[eter] bears S64 3/4 °E 12 l[in]ks dist[ant]
 A pine 28 in[che]s diam[eter] bears N10 °W 183 l[in]ks dist[ant]
- 21.25 **Right bank of Methow River**
 Set a granite stone
Enter a countryman's field runs along the river
- 26.66 Rail fence bears NW and SE
- 26.70 Stock trail bears NW and SE
 Begin abrupt ascent NE slope of mountain
- 36.50 Irrigation ditch a countryman's from Gold Creek 4 l[in]ks wide 2 f[ee]t deep, course NW
- 37.50 Wagon road from Gold Creek to Silver bears NW and SE
- 39.98 1/2 Set a granite stone
 A pine 40 in[che]s diam[eter] bears S61 1/4 °E 77 l[in]ks

- dist[ant]
 A pine 16 in[che]s diam[eter] bears S82 1/4 °W 68 l[in]ks
 dist[ant]
 Ascend abrupt NE slope
- 71.35 Summit of mountain ridge 620 feet above the Methow River
 bears N and S
 Descend abrupt W slope
- 75.87 Trail from Squaw Creek to Silver, b[ea]rs N and S
 Ascend E slope
- 79.97 The cor[ner] of sec[ti]on[s] 7, 8, 17 and 18 55 f[ee]t above trail
 Land mountainous
 Soil 1st rate on river bottom bal[ance] 2d rate
 Timber pine and fir 2d class
 Mountainous land 58.71 ch[ain]s

N0 °5'W bet[ween] sec[ti]on[s] 7 and 8

- Over mountains and through timber
 Along steep shell rock mountain side, slope E
- 16.65 Trail from Squaw Creek to Silver b[ea]rs NW and SE
 Ascend
- 17.30 Point of spur 16 f[ee]t above trail bears NW and SE
 Descend rapidly NE slope
- 27.75 Wagon road from Gold Creek to Silver and state road location
 b[ea]rs NW and SE
- 34.00 Foot of mountain bears NW and SE
- 39.47 Fence bears S45 °E and N45 °W
 Enter John Simmon's enclosure
- 40.00 Set a granite stone
- 60.30 Irrigation ditch 4 l[in]ks wide 6 in[che]s deep course E
- 67.00 Rail fence bears E and W
- 67.10 Wagon road from Simmon's house b[ea]rs E and W
- 67.37 Top of bank 20 feet above the water and
Right bank of Methow River
 Set a granite stone
 A pine 12 in[che]s diam[eter] bears N70 3/4 °E 185 l[in]ks
 dist[ant]
 A pine 7 in[che]s diam[eter] bears N83 1/2 °W 105 l[in]ks
 dist[ant]
**To determine the dist[ance] across the river I set a flag on line on
 left bank . . . the dist[ance] is . . . 5.22 ch[ain]s which added to
 67.37 makes**
- 72.59 **Left bank of the Methow River**
 Set a granite stone

A pine 24 in[che]s diam[eter] bears N46 3/4 °E 58 l[in]ks
 dist[ant]
 A cottonwood 6 in[che]s diam[eter] bears N62 1/4 °W 11
 l[in]ks dist[ant]
 Over level
 80.00 Set a granite stone
 A pine 24 in[che]s diam[eter] bears S59 3/4 °E 62 l[in]ks
 dist[ant]
 No other trees in the limit
 Land mountainous
 Soil first rate on bottom and level, balance 2d rate
 Mountainous land 34.00 ch[ain]s

S89 °47'W on a random line bet[ween] sec[tion]s 6 and 7

16.13 **Left bank of the Methow River**
 Set temp[orary] Meander cor[ner] and set flag on line on right
 bank . . . **the dist[ance] is . . . 4.24 ch[ain]s** which added to 16.73
 makes
 20.37 **To right bank of Methow River**
 Set temp[orary] Meander cor[ner]
 40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
 77.54 Intersect the W b[oun]d[ary] of the T[ow]nsh[ip] 9 l[in]ks N of the
 cor[ner] of sec[tion]s 6, 7, 1 and 12
 Thence I run
 N89 °43'E on a true line bet[ween] sec[tion]s 6 and 7
 Over mountains and through timber
 Descend abrupt E slope
 37.54 Set a granite stone
 47.54 Foot of mountain bears N and S 270 [feet] below 1/4 cor[ner]
 57.17 **Right bank of the Methow River**
 Set a granite stone
 61.41 **Left bank of Methow River**
 A cottonwood tree 12 in[che]s diam[eter] in place
 A pine 20 in[che]s diam[eter] bears N72 1/2 °E 55 l[in]ks
 dist[ant]
 A pine 22 in[che]s diam[eter] bears S55 °E 99 l[in]ks
 dist[ant]
 Enter dense undergrowth cottonwood, alder, willow, thorn and
 birch
 62.48 Leave dense undergrowth bears N and S
 Thence over level
 77.54 The cor[ner] of sec[tion]s 5, 6, 7 and 8
 Land mountainous and level

Soil 1st rate on level bal[ance] 2d rate
Timber pine and fir 2d class
Mountainous land 48.61 ch[ain]s

N7'W on a random line bet[ween] sec[tion]s 5 and 6

Over level
13.00 **Left bank of Methow River**
Set temp[orary] Meander cor[ner]: as the land on the opposite banks is a low gravel bar and no meander corners to be established I proceed to Meander around the left bank to line Thence with meanders through frac[tional] sec[tion] 5 left bank up stream
N61 1/2 °E 3.50 ch[ain]s along banks 30 f[ee]t high and at
N21 °E 6.50 ch[ain]s **Enter dense undergrowth aspen,**
N7 1/2 °E 5.50 ch[ain]s **alder, willow and brick along**
N42 °W 9.17 ch[ain]s **banks 4 to 6 feet high**
N4 °W .54 ch[ain]s
33.55 **Left bank of Methow River**
Set temp[orary] Meander cor[ner]
40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
68.90 **Left bank Methow River**
Set temp[orary] Meander cor[ner]
To determine the dist[ance] across I set a flag on line on right bank . . . the dist[ance] is . . . 4.14 which added to 68.90 makes
73.04 **Right bank of Methow River**
79.88 Intersect the N b[oun]d[ary] of the T[ow]nshipp 23 l[in]ks E at the cor[ner] of sec[tion]s 5, 6, 31 and 32
Thence I run
S0 °E on a true line bet[ween] sec[tion]s 5 and 6
Over level land
4.40 Wagon road from Silver to Gold Creek and state road location bears S59 1/2 °W, N59 1/2 °E
5.05 Top of bank 16 f[ee]t above the river, NE and SW
5.25 Enter dense undergrowth b[ea]rs NE and SW
6.84 **Right bank of the Methow River**
Set a granite stone
A pine 36 in[che]s diam[eter] bears N72 °E 42 l[in]ks dist[ant]
A cottonwood 4 in[che]s diam[eter] bears N86 1/2 °W 12 l[in]ks dist[ant]
10.98 **Left bank of Methow River**
Set a granite stone
A pine 26 in[che]s diam[eter] bears N34 3/4 °E 31 l[in]ks

- dist[ant]
 A pine 24 in[che]s diam[eter] bears S50 1/4 °W 86 l[in]ks
 dist[ant]
- 37.47 Enter dense undergrowth bears NW and SE brush aspen, thorn
 and willow
- 39.88 Set a granite stone
 An aspen 4 in[che]s diam[eter] bears N50 1/4 °E 26 l[in]ks
 dist[ant]
 An aspen 4 in[che]s diam[eter] bears S46 3/4 °W 25 l[in]ks
 dist[ant]
- 46.33 **Left bank of Methow River**
 Set a granite stone
 A cottonwood 6 in[che]s diam[eter] bears N40 3/4 °E 4
 l[in]ks dist[ant]
 A cottonwood 5 in[che]s diam[eter] bears S50 1/2 °W 14
 l[in]ks dist[ant]
 Thence South by Meanders 20.55 ch[ain]s which added to
 46.33 makes
- 66.88 **Left bank of Methow River**
 Set a granite stone
- 79.88 The cor[ner] of sec[tion]s 5, 6, 7 and 8
 Land level
 Soil 1st rate
 Timber scattering pine and cottonwood
 Dense undergrowth including Meanders 29.33 ch[ain]s

East bet[ween] sec[tion]s 5 and 32

- Over mountains through scattering timber
 Descend gradual SE slope
- 7.50 Wagon road from Gold Creek to Silver and upper Methow
 N40 °E and S40 °W
- 8.40 **Right bank of the Methow River**
 Set a granite stone
 A pine 36 in[che]s diam[eter] bears S10 °E 80 l[in]ks
 dist[ant]
 A pine 16 in[che]s diam[eter] bears N56 1/2 °W 163 l[in]ks
 dist[ant]
- 13.25 **Left bank of Methow River**
 Set a granite stone
 A pine 24 in[che]s diam[eter] bears N42 °E 174 l[in]ks
 dist[ant]
 A pine 24 in[che]s diam[eter] bears S37 1/2 °W 83 l[in]ks
 dist[ant]

13.75 Top of bank 30 f[ee]t above the river bears NE and SW
Ascend gradual W slope

27.00 Foot of mountain bears N and S
Ascend abrupt W slope

40.00 Set a granite stone
A pine 30 in[che]s diam[eter] bears N57 3/4 °E 185 l[in]ks
dist[ant]
A pine 28 in[che]s diam[eter] bears N28 3/4 °W 103 l[in]ks
dist[ant]

52.00 Bottom of ravine course S60 °W
Ascend abrupt NW slope

65.50 Top of ravine N and S continue ascent

80.00 Set a granite stone . . . pits impracticable
Land mountainous
Soil 2d rate, Timber scattering pine
Mountainous land 53.00 ch[ain]s

General Description

This Township is nearly all mountainous having a few small table lands and low lands along the river which produces abundant crops with irrigation, the soil being a rich sandy loam and fertile. The remaining portion of the township is mountainous the soil of which is 2d and 3rd rate a great portion of which is covered with an abundant growth of rich and nutritious bunch grass which affords excellent grazing and will produce certain crops without irrigation especially fall sown grains. **Timber is pine and fir and generally 2d class with some cottonwood along the Methow River.** There are also a number of mining locations scattered throughout the Township, none of which however have been developed sufficiently to determine their value as mineral bearing ores: **The Township is well watered by the Methow River, which runs through it from NW to SE,** Gold Creek and its tributaries, McFarlan Creek, Cow Creek and numerous small springs in canyons and ravines throughout the township. There are three settlers in sec[ti]on 8, two in sec[ti]on 33, two in sec[ti]on 21 and one each in sec[ti]on[s] 1, 5, 6, 12, 16, 22, 27, 32, 34 and 36.

Moses M. Emerson
U.S. Deputy Surveyor

(Emerson 1897b)

Gold Creek/Carlton to Twisp

TOWNSHIP 32N, RANGE 22E, W.M.

E on a random line bet[ween] sec[tion]s 29 and 32

- 30.00 **Right bank of Methow River:** Set temp[orary] M[eander] C[orner]
Thence over level gravel bar to
- 36.67 **To determine the dist[ance] across the river I set a flag on line on
left bank . . . the dist[ance] is . . . 5.63 ch[ain]s** which added to
36.67 makes
- 42.30 **To left bank of Methow River**
Point for 1/4 sec[tion] cor[ner] falls in the river
Set temp[orary] Meander cor[ner]
- 80.07 Intersect the N and S line 15 l[in]ks S of the cor[ner] of sec[tion]s
28, 29, 32 and 33
Thence I run
S89°54'W on a true line bet[ween] sec[tion]s 29 and 32
Over mountains and level
Through scattering timber
Descend abrupt and broken W slope
- 35.75 Foot of mountain bears N and S
Thence over level
- 37.50 Brow of bluff bank 40 f[ee]t above river
- 37.77 Set a granite stone
This meander cor[ner] is 720 f[ee]t below the sec[tion] cor[ner] and
20 feet above the river
- 50.07 **Right bank of Methow River**
Set a granite stone
A pine 36 in[che]s diam[eter] bears N61°E 97 l[in]ks
dist[ant]
A pine 10 in[che]s diam[eter] bears S69°W 157 l[in]ks
dist[ant]
Thence over level
- 59.27 G. Bayles fence bears N20°E and S20°W
Improvements are not of permanent character
Foot of bluff: ascend abrupt E slope
- 69.57 Top of bluff bank 395 f[ee]t above the river bears N and S
Descend over broken SW slope
- 80.07 The cor[ner] of sec[tion]s 29, 30, 31 and 32
Land mountainous and level
Soil 1st rate on level bal[ance] 2d rate
Timber scattering pine and fir
Mountainous land 56.75 ch[ain]s

N89°E on a random line bet[ween] sec[tion]s 20 and 29

- 18.86 **Right bank of the Methow River**
Set temp[orary] meander cor[ner]
To determine the dist[ance] across the river I set a flag on line on left bank . . . the dist[ance] is . . . 5.07 which added to 18.86 makes
- 23.93 **To left bank of the Methow River**
Set temp[orary] Meander cor[ner]
- 40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
- 79.93 Intersect the N and S line 13 l[in]ks N of the cor[ner] of sec[tion]s 20, 21, 28 and 29
Thence I run
W on a true line bet[ween] sec[tion]s 20 and 29
Over level and mountainous
Through scattering timber
Descend abrupt slope of bluff bank slope W, bears N and S
- 9.50 Foot of bluff 225 f[ee]t high bears N and S
- 10.25 Wagon road from Sumpters to Silver bears N10°E and S10°W
- 10.43 Rail fence bears N10°E and S10°W
Enter Sumpter's field
Thence over level
- 39.96 1/2 Set a granite stone
A pine 12 in[che]s diam[eter] bears N88 1/2°E 88 l[in]ks dist[ant]
A pine 12 in[che]s diam[eter] bears N14°W 135 l[in]ks dist[ant]
- 43.50 Brow of bench 50 f[ee]t above Methow River bears N and S
Descend W slope
- 46.50 Foot of descent
Thence over level
- 56.00 **Left bank Methow River**
Set a granite stone
A pine 30 in[che]s diam[eter] bears S77 1/2°W 16 l[in]ks dist[ant]
A pine 20 in[che]s diam[eter] bears N25°W 63 l[in]ks dist[ant]
- 61.07 **Right bank of the Methow River**
Set a granite stone
No trees in limit
Thence through Prickett's field
- 63.77 Fence bears NE and SW
Leave G.S. Prickett's field

- 64.22 Wagon road from Gold Creek to Silver and Twitch State Road
location bears NE and SW
Ascend abrupt SE slope
- 73.82 Top of ascent bears N and S 300 feet above the river
Descend broken SW slope
- 77.27 Prickett Creek 2 links wide 2 inches deep course SE
Enter dense undergrowth aspen and willow bears N and S
- 78.70 Leave undergrowth and top of bank 12 feet high
- 79.93 The corner of sections 19, 20, 29 and 30
Land level and mountainous
Soil on level 1st rate balance 2d rate
Timber scattering pine
Mountainous land 27.91 chains

N0-4'W between sections 20 and 21

- Over mountains and level through scattering timber
Over broken and rolling land
- 11.00 Brow of bluff bank bears NE and SW
Descend abrupt NW slope
- 23.00 Foot of bluff bank 200 feet high bears NE and SW
Thence over level land
- 23.90 Wagon road from Sumpters to Silver NE and SW
- 40.00 Set a granite stone
A pine 30 inches diameter bears N89-W 50 links
dist[ant]
A pine 30 inches diameter bears N33 1/2-W 74 links
dist[ant]
- 74.25 **Left bank of Methow River**
Set a granite stone
A pine 18 inches diameter bears N67 1/4-E 250 links
dist[ant]
No other trees in limit
**To determine the distance across the river I set a flag on line on
right bank . . . the distance is . . . 4.75 chains which added to
74.25 makes**
- 79.00 **To right bank of Methow River**
Set a granite stone
A cottonwood 10 inches diameter bears S29 1/2-W 37
links dist[ant]
A cottonwood 12 inches diameter bears N87-E 72 links
dist[ant]
- 80.00 Set a granite stone
A pine 24 inches diameter bears S69-E 115 links

dist[ant]
 A pine 30 in[che]s diam[eter] bears S4°W 58 l[in]k[s]
 dist[ant]
 No other trees in limit
 Land level and mountainous
 Soil 1st rate on level bal[ance] 2d rate
 Timber scattering pine
 Mountainous land 23.00 ch[ain]s

E on a random line bet[ween] sec[tion]s 16 and 21

- 1.68 **Right bank of Methow River**
 Set temp[orary] Meander cor[ner]
To determine the dist[ance] across I set a flag on line on left bank
. . . the dist[ance] is . . . 5.39 ch[ain]s which added to 1.68 makes
- 7.07 **Left bank Methow River**
 Set temp[orary] Meander cor[ner]
- 40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
- 80.02 Intersect the N and S line at the cor[ner] of sec[tion]s 15, 16, 21
 and 22
 Thence I run
 S on a true line bet[ween] sec[tion]s 16 and 21
 Over level and mountainous land
 Through scattering timber
- 12.50 Brow of ravine bears NE and SW
 Descend abrupt NE slope
- 17.75 Bottom of ravine 90 f[ee]t deep course SW
 Ascend abrupt SE slope
- 22.00 Brow of ravine bears NE and SW
 Thence over rough and broken
- 25.00 Brow of bluff bank bears NE and SW
 Descend abrupt NW slope
- 35.00 Foot of bluff bank 350 f[ee]t high bears NE and SW
 Thence over nearly level
- 35.90 Wagon road from Sumpters to Silver b[ea]rs N and S
- 36.07 Fence b[ea]rs N and S
 Enter B. Farley's field
- 39.50 Brow of ravine b[ea]rs NW and SE: Descend
- 40.00 Set a granite stone
- 40.90 Bottom of ravine 40 f[ee]t deep course NW, this is the outlet of
 Leaser Canyon Creek
 Ascend
- 42.00 Brow of ravine b[ea]rs SE and NW

Thence over level
 56.00 Brow of bench b[ea]rs NE and SW
 60.40 Foot of bench 45 f[ee]t below top b[ea]rs NE and SW
 Thence over level
 72.95 **Left bank of the Methow River**
 Set a granite stone
 A pine 20 in[che]s diam[eter] bears N14°W 52 l[in]ks
 dist[ant]
 A pine 16 in[che]s diam[eter] bears S47 3/4°W 188 l[in]ks
 dist[ant]
 78.34 **Right bank of Methow River**
 Set a granite stone
 A pine 24 in[che]s diam[eter] bears N54 1/2°E 102 l[in]ks
 dist[ant]
 A pine 24 in[che]s diam[eter] bears S53 1/2°W 82 l[in]ks
 dist[ant]
 80.02 Land mountainous
 Soil 1st rate on level bal[ance] 2d rate
 Timber scattering pine
 Mountainous land 35.00 ch[ain]s

N89°57'E on a random line bet[ween] sec[tion]s 10 and 15

Offset N89°57'E 5.00 ch[ain]s
 Thence N3°W 90 l[in]ks to left bank of the Methow River: Set
 temp[orary] Meander cor[ner]
 Thence N89°57'E
 40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
 80.00 Intersect the N and S line 8 l[in]ks N of the cor[ner] of sec[tions]
 10, 11, 14 and 15
 Thence I run
 W on a true line bet[ween] sec[tion]s 10 and 15
 Over mountains through scattering timber
 Descend abrupt and broken SW slope
 36.00 Wagon road from Columbia River to Silver and upper Methow
 River bears NW and SE: and
 Foot of descent
 Ascend abrupt E slope
 40.00 Set a granite stone
 Descend abrupt and broken W slope
 61.50 Foot of descent 250 f[ee]t below 1/4 sec[tion] cor[ner]
 Thence over level
 62.35 Wagon road from Sumpters to Silver b[ea]rs NE and SW
 71.00 Brow of bench 60 feet above the Methow River bears NE and SW

- 75.00 **Left bank of the Methow River**
 Set a granite stone
 A fir 10 in[che]s diam[eter] bears N34°E 47 l[in]ks dist[ant] .

 No other bearing trees in limit
- 80.00 **The point for cor[ner] of sec[tion]s 9, 10, 15 and 16 falls in the Methow River**
 Land mountainous
 Soil 1st rate on level bal[ance] 2d rate
 Mountainous and broken 65.50 ch[ain]s
- E on a random line bet[ween] sec[tion]s 3 and 10
- 40.00 Set temp[orary] 1/4 sec[tion] cor[ner]
 52.07 **Right bank of the Methow River**
 Set temp[orary] Meander cor[ner]
To determine the dist[ance] across I set flag on line on left bank of river . . . the dist[ance] is . . . 3.39 ch[ain]s which added to 52.07 makes
- 55.46 **Left bank of Methow River:** Set temp[orary] M[eander] C[orner]
 80.24 Intersect the N and S line 37 l[in]ks N of the cor[ner] of sec[tion]s 2, 3, 10 and 11
 Thence I run
 N89°44'W on a true line bet[ween] sec[tion]s 3 and 10
 Over rough and broken land
 Along level to
- 4.00 Thence descend over rough and broken
 20.50 Begin abrupt descent NW slope bluff bank
 23.05 Wagon road from Columbia River to Silver and upper Methow bears NE and SW 100 feet below top of bluff
- 24.00 Enter dense undergrowth alder and willow
 24.70 **Left bank of Methow River**
 A cottonwood tree 12 in[che]s diam[eter] in place
 I mark for Meander cor[ner] of fract[ional] sec[tion]s 3 and 10
 Stone 2 f[ee]t base, 2 f[ee]t high around the cor[ner] from which
 A cottonwood tree 12 in[che]s diam[eter] bears N5°W 8 l[in]ks dist[ant]
 An alder 5 in[che]s diam[eter] bears South 50 l[in]ks dist[ant]
- 28.17 **Right bank of Methow River**
 Set a granite stone
 A pine 30 in[che]s diam[eter] bears S7°E 134 l[in]ks dist[ant]
 A pine 18 in[che]s diam[eter] bears N20 1/4°E 95 l[in]ks dist[ant]

- 31.00 G. Ballou's house bears N 5.00 ch[ain]s dist[ant] has 16 acres under fence and cultivation
Improvements are of a permanent character value \$300
- 40.12 Set a granite stone
- 50.74 Wagon road from Gold Creek to Silver and upper Methow by way of Ballou's ford bears NE and SW
- 52.24 Foot of hill N and S
- 56.74 Top of hill 80 f[ee]t high
Descend abrupt SW slope
- 60.24 Foot of hill: thence over level
- 71.00 Leave flat bears N and SW
Ascend
- 75.29 Wagon road from Gold Creek to Twitch State Road location
- 80.24 The cor[ner] of sec[tion]s 3, 4, 9 and 10
Land level and rolling to mountainous
Soil 1st rate on level bal[ance] 2d rate
Timber scattering pine
Mountainous to broken and rolling 38.02 ch[ain]s

General Description

This Township is nearly all mountains containing however a great many small table lands and ravine basins which produce certain kinds of crops especially corn without irrigation also several varieties of fruit. The low lands and benches along the Methow River produces nearly all kinds of crops in abundance, where the lands are irrigated, the soil being a rich sandy loam. The soil on the mountainous portions is generally 2d class and the land is covered with a nutritious bunch grass and affords excellent grazing. The timber is pine and fir generally 2d class and will furnish a fair quality of lumber for domestic uses. **Scattering cottonwood is found along the Methow River and its tributaries. The Township is well watered by the Methow River which flows through it from NE to SW by Libby Creek, Texas Creek, Cook Creek, Benson Creek, and their tributaries, and numerous springs in canyons and ravines throughout the Township: The Methow River is generally skirted with a dense undergrowth of aspen, willow, rose bush, thorn and dogwood, and flows mostly between steep and rocky banks from 8 to 60 f[ee]t high. The bottom is covered with large boulders and the current is rapid having an average fall of 32 feet per mile. During the season of low water the average width of the water is from 2.50 to 3.00 ch[ain]s in width and has a depth of 2 to 5 f[ee]t.** There are a number of mining claims located throughout the Township. None have been sufficiently developed to determine their true value. There are three settlers each in 19, 20 and 22, and one each in sec[tion]s 2, 9, 10, 16, 21, 23, 31, 32 and 34, and has two schoolhouses, one in sec[tion] 31, and one in sec[tion] 27.

Sept 3, 1897
Moses M. Emerson
U.S. Deputy Surveyor

(Emerson 1897b)

TOWNSHIP 33N, RANGE 22E, W.M.

South boundary of section 34 on the Parallel

- 40.00 Set a basalt stone
A willow tree 6 in[che]s diam[eter] bears S14°45'W 54
l[in]k[s] dist[ant]
A cottonwood tree 10 in[che]s diam[eter] bears N10°45'W
85 l[in]k[s] dist[ant]
- 80.00 On the parallel, set a basalt stone
No trees in limits and obliterated all traces on the old standard
cor[ner]

S89°58'W on Tangent S of Section 34

Va[riation] 23°E

- Over mountains, through timber, and dense undergrowth, along
level
- .50 Enter heavy timber and dense undergrowth, course NW
- .57 The old cor[ner] to sec[tion]s 34 and 35 bears N 5.21 ch[ain]s,
which is a boulder
- 19.50 **Left bank Methow River comes from NE and flows SE.** I send a
flag across to Right Bank and place on tangent for triangulation . .
. **the dist[ance] across the river is . . . 4.62 ch[ain]s** which added
to 19.50 makes
- 24.02 **To right bank Methow River flows SE**
- 27.00 Left bank of slough course SE
- 30.00 Right bank of slough course SE
- 40.00 Offset N 0.072 ch[ain]s. Set temporary 1/4 sec[tion] cor[ner]
- 40.70 The sec[tion] 1/4 sec[tion] cor[ner] bears N 6.20 ch[ain]s dist[ant]
which is a basalt stone
- 43.70 Leave heavy timber, and dense undergrowth, course NE and SW,
and ascend abruptly slope SE
- 44.30 Trail course NE and SW
- 60.50 Irrigation ditch course NE
- 79.37 The old standard corner bears N 6.91 ch[ain]s dist[ant], which is a
basalt stone
- 80.00 Offset N 0.099 ch[ain]s, set temporary cor[ner] to sec[tion]s 33
and 34
Land mountainous 36.30 ch[ain]s, balance level
Soil 2d and 3rd rate
Timber - cottonwood, alder and willows
Undergrowth 36.18 ch[ain]s cottonwood, alder and willows

East on random parallel to south boundary bet[ween] sec[ti]on[s] 27 and 34

Va[riation] 24°10'E
40.00 Set temporary 1/4 sec[ti]on cor[ner]
80.00 Intersect N and S line at cor[ner] to sec[ti]on[s] 26, 27, 34 and 35
Thence I run
West on a true line bet[ween] sec[ti]on[s] 27 and 34
Va[riation] 23°22'E
Over mountains, and rolling land, through dense undergrowth
Over gently rolling ground, slope W
1.00 Wagon road course NW and SE
1.35 Pole fence course NW and SE
13.50 Peter Lackott's house bears south about 10 ch[ain]s dist[ant]
14.50 Top of steep bank, **enter dense undergrowth course NW and SE, descend**
15.00 Foot of bank 25 f[ee]t high
15.50 **Left bank of Methow River, course SE**
[River 6.51 ch[ain]s wide]
22.01 **To right bank Methow River course S30°E, base runs through dense undergrowth, thence along line through dense undergrowth**
28.00 **Leave undergrowth**, foot of steep bank, and ascend slope E
32.00 Brow of bench, course NW and SE thence along level
40.00 Set a granite stone
No trees in limits
42.25 Brow of bench 50 f[ee]t high course NE and SW and descend slope NW
43.50 Foot of bench course NE and SW, thence through dense undergrowth and swamp
63.00 Foot of bluff course NW and SE, leave dense undergrowth and swamp course NW and SE, ascend slope NE
64.50 Top of steep bank 75 f[ee]t high course NW and SE
69.50 Foot of mountain and ascend slope NE
80.00 The cor[ner] to sec[ti]on[s] 27, 28, 33 and 34
Land mountainous 10.50 ch[ain]s balance level and rolling
Soil 1st and 2d rate
Timber, none. 26.50 ch[ain]s of the line runs through dense undergrowth of poplar and willow

N0°03'W parallel to East Boundary bet[ween] sec[ti]on[s] 27 and 28

Va[riation] 24°E
Over mountains, and level land, through dense undergrowth
Ascend slope
1.50 Tunnel course NW and SE, ascend slope NE

12.90 Trail course NW and SE
 14.00 Top of bluff course NW and SE 75 feet high, descend abruptly slope NE
 15.25 Foot of bluff course E and W, slough 50 links wide course E and W and enter dense undergrowth
 28.00 Leave dense undergrowth, course E and W. Thence along over level land
 40.00 Set a blue boulder . . . pits impracticable
 A cabin bears N50°W about 3.00 chains distant
Right bank Methow River course SE
[River 6.35 chains wide]
 46.55 **To left bank Methow River course SE. Thence through dense undergrowth, course NW and SE**
 76.30 **Left bank Methow River course S30°W**
 Set a granite stone
 A cottonwood tree 6 inches diameter bears N58°E 28 links distant
 A pine tree 36 inches diameter bears S20°W 155 links distant
 Thence I run E 1.84 chains, N 3.70 chains which makes 80.00 chains N and 1.84 chains E of corner to sections 21, 22, 27 and 28 which corner falls in the river at this point. I set a granite stone
 A pine tree 24 inches diameter bears N44°E 175 links distant
 No other tree in limits
 Land mountainous 15.25 chains balance level and rolling
 Soil 1st and 2d rate
 Timber, a few pine, fir and cottonwood along river
 27.75 chains of this line runs through dense undergrowth of poplar willows and cottonwood

East on a random line parallel to south boundary between sections 22 and 27

Variation 23°54'E

40.00 Set temporary 1/4 section corner
 80.12 Intersect N and S line at the corner to sections 22, 23, 26 and 27
 Thence I run
 West on a true line between sections 22 and 27
 Variation 23°16'E
 Over gently rolling and level land
 14.65 Top of bluff course NW and SE, descend slope SW

19.15 Foot of hill course NW and SE
 20.45 Wagon road course N and S
 22.30 Fence course N and S
 26.15 Enter field course N and S
 27.40 Leave field course N and S
 33.15 Geo[rge] E Nichols house bears N14°15'W
 School house bears S25°E
 40.07 Set a granite stone
 No trees in limits
 78.15 Rail fence course NW and SE
 78.81 Witness corner to sec[ti]on[s] 21, 22, 27 and 28
Left bank Methow River course SW
 Lands gently rolling and level 78.31 ch[ain]s, balance river
 Soil 1st and 2nd rate
 Timber, none. Geo[rge] E Nichols improvements permanent.
 Val[ue] \$750.00. 100 acres under fence and cultivation

N0°03'W parallel to east boundary bet[ween] sec[ti]on[s] 21 and 22
 Va[riation] 24°E

Over mountains, level land and **through dense undergrowth**
From the W.C. on left bank of Methow River
[River 3.70 ch[ain]s wide]
 7.85 On line N bet[ween] sec[ti]on[s] 21 and 22
 Set an alder post
 An alder tree 5 in[che]s diam[eter] bears N25°30'E 25
 l[in]k[s] dist[ant]
 A cottonwood tree 8 in[che]s diam[eter] bears S2°W 34
 l[in]k[s] dist[ant]
Course of river bank at this point nearly N and S, thence through
dense undergrowth
 40.00 Set a cottonwood post
 A black birch 4 in[che]s diam[eter] bears S62°W 14 l[in]k[s]
 dist[ant]
 A poplar tree 5 in[che]s diam[eter] bears N55°E 11 l[in]k[s]
 dist[ant]
 45.51 **Right bank Methow River, course comes from the W and turns to**
the SE
[River 3.74 ch[ain]s wide]
Leave dense undergrowth
 49.23 **Left bank Methow River, comes from the W and turns to SE**
 50.50 Wagon road course NW and SE
 53.50 Foot of mountain, ascend slope SW
 80.00 Set a granite stone . . . pits impracticable

No trees in limits
 Land, mountainous 26.50 ch[ain]s balance level
 Soil 2d and 3rd rate
Timber a few pine, fir and cottonwood along river
 37.81 ch[ain]s of this line runs through dense undergrowth of alder
 and willows

N0°04'W parallel to East Boundary bet[ween] sec[tion]s 20 and 21

Va[riation] 23°31'E

Over mountains, through timber
 Along level land to
 3.00 Trail and wagon road course NW and SE, and ascend slope S
 30.00 Top of rock bluff 400 f[ee]t high course E and W and descend
 slope NE
 39.95 Trail course NW and SE
 40.00 Set a basalt stone . . . pits impracticable
 A pine tree 30 in[che]s diam[eter] bears N9°30'E 93 l[in]ks
 dist[ant]
 A pine tree 24 in[che]s diam[eter] bears N89°E 47 l[in]ks
 dist[ant]
 50.87 **Right bank Methow River course SE**
 Foot of mountain
[River 2.67 ch[ain]s wide]
 53.54 **To left bank Methow River course S80°E** and ascend steep
 bank
 54.75 Unfinished irrigation ditch course SE
 66.00 Top of bluff thence over level land
 72.25 Top of bluff and descend slope NW
 73.50 Unfinished irrigation ditch course SW
 80.00 Set a granite stone
 No trees in limits
 Land mountainous 68.08 ch[ain]s balance level
 Soil 1st and 2d rate
 Timber a few scattering pine and fir 2d class

East on random line parallel to South Boundary bet[ween] sec[tion]s 17 and 20

Va[riation] 24°E

40.00 Set temporary 1/4 sec[tion] cor[ner]
 80.00 Intersect N and S line 19 l[in]ks S of the cor[ner] to sec[tion]s 16,
 17, 20 and 21
 Thence I run
 S89°52'W on a true line bet[ween] sec[tion]s 17 and 20

Over mountains **through timber and undergrowth along over level land**

2.15 **Left bank of old channel Methow River course SW**

9.20 **Right bank of old channel Methow River course SW enter undergrowth and timber course NE and SW**

12.50 Fence course N and S

18.40 **Left bank Methow River, course SW, leave undergrowth [River 3.67 ch[ain]s wide]**

22.07 **To right bank Methow River course SW, thence along over gravel bar**

33.25 Leave gravel bar

40.00 Set a granite stone
No trees in limits

48.76 Fence course N and S. Foot of mountain, ascend slope E

50.10 Trail course N and S

52.25 Wagon road course N and S

76.00 Summit course N and S 500 f[ee]t above Methow River, descend slope SW

80.00 Cor[ner] to sec[ti]on[s] 17, 18, 19 and 20
Land mountainous 27.75 ch[ain]s balance nearly level
Soil 2d and 3rd rate
Timber a few scattering pine and fir 2d class along river bottom.
9.20 ch[ain]s of this line runs through dense undergrowth of poplar and willow

East on random line parallel to South Boundary bet[ween] sec[ti]on[s] 8 and 17

Va[riation] 24°E

40.00 Set temporary 1/4 sec[ti]on cor[ner]

79.81 Intersect N and S line 15 l[in]ks S of the cor[ner] to sec[ti]on[s] 8, 9, 16 and 17
Thence I run
S89°54'W on a true line bet[ween] sec[ti]on[s] 8 and 17
Va[riation] 23°30'E
Over mountains, through undergrowth
Ascend abruptly slope SE

33.50 Top of mountain 800 f[ee]t above Methow River
Descend slope W

39.91 Set a granite stone . . . pits impracticable
No trees in limits

58.75 **Left bank Methow River**
[River 2.22 ch[ain]s wide]

60.97 **Right bank Methow River course SE**
Enter undergrowth, course NW and SE

76.90 Right bank Twitsp River course SE, leave undergrowth
 79.81 Left bank Twitsp River, and cor[ner] to sec[tion]s 7, 8, 17 and 18
 Land mountainous 58.75 ch[ain]s, balance level
 Soil - East of Methow River 4th rate and rocky, west of Methow
 River 1st rate
**Timber scattering pine, fir and cottonwood along Methow and
 Twitsp Rivers.** 15.03 ch[ain]s of this line runs through dense
 undergrowth, poplar and willow

N0°05'W parallel to East Boundary bet[ween] sec[tion]s 7 and 8
 Va[riation] 23°58'E

Over level land, through timber and undergrowth
 7.50 The mouth of Twitsp River bears E about 6 ch[ain]s dist[ant]
 11.50 Brow of steep bank 25 f[ee]t high
 12.00 Bottom of bank course E and W, thence along the bank of
 Methow River to
 18.00 Leave river, coming from NE
 32.64 **Right bank of Methow River course NE**
[River 4.40 ch[ain]s wide]
 37.04 **Left bank Methow River course NE**
 40.00 Set a pine post
 A cottonwood tree 8 in[che]s diam[eter] bears N25°15'E 85
 l[in]k[s] dist[ant]
 A pine tree 20 in[che]s diam[eter] bears N67°15'E 150
 l[in]k[s] dist[ant]
 45.00 **Right bank East channel Methow River, course NW and SE**
[River 2.22 ch[ain]s wide]
 47.22 **Left bank East channel Methow River, course NW and SE**
 53.30 **Left bank East channel Methow River, course NE and SW**
[River 1.70 ch[ain]s wide]
 55.00 **Right bank East channel Methow River course NE and SW**
 76.34 **Right bank of East channel Methow River course NW and SE**
[River 3.66 ch[ain]s wide]
 80.00 **Left bank East channel Methow River course NW and SE**
 Set a granite stone . . . pits impracticable
 A cottonwood tree 8 in[che]s diam[eter] bears N46°15'E 88
 l[in]k[s] dist[ant]
 A cottonwood tree 8 in[che]s diam[eter] bears N25°W 84
 l[in]k[s] dist[ant]
 Land river bottom
 Soil 1st and 2d rate
 Timber scattering pine, fir and cottonwood, 2d class
 68.02 ch[ain]s of this line runs through dense undergrowth of

cottonwood, alder, willow, burned and fallen timber

West on a random line parallel to South Boundary bet[ween] sec[ti]on[s] 6 and 7
Va[riation] 24°52'E

- 40.00 Set temporary 1/4 sec[ti]on cor[ner]
79.30 Intersect the West Boundary of T[ownshi]p 1 [in]k N of the
cor[ner] to sec[ti]on[s] 6, 7, 11 and 12 which is a granite stone
Thence I run
East on a true line bet[ween] sec[ti]on[s] 6 and 7
Va[riation] 25°E
Over mountains, through timber, dense undergrowth and driftwood
Descend abruptly slope E
33.20 Wagon road course N and S
34.80 **Right bank of Methow River course NE and SW**
[River 1.50 ch[ain]s wide]
Foot of mountain
36.30 **Left bank Methow River course NE and SE, thence along through**
dense undergrowth and driftwood, and burned and fallen timber
39.30 Set a granite stone
No trees in limits
74.31 **Right bank E channel Methow River**
[River 4.99 ch[ain]s wide]
79.30 **Left bank of East channel of Methow River and cor[ner] to**
sec[ti]on[s] 5, 6, 7 and 8
Land mountainous 34.80 ch[ain]s, balance nearly level
Soil 1st and 2d rate
Timber scattering pine, fir and cottonwood 2d class. 38.01
ch[ain]s of this line runs through dense undergrowth of
cottonwood, alder and willow, burned and fallen timber and
driftwood.

N89°W on a true line bet[ween] sec[ti]on[s] 5 and 32
Va[riation] 23°20'E

- Over mountains, through timber
Over rolling land to
15.00 Foot of mountain, course N and S, ascend abruptly slope E, enter
timber
33.75 Summit of sharp ridge course N and S and descend slope SW
40.00 Set a granite stone
No trees in limits
45.00 Bottom of ravine course NW and ascend slope NE
52.00 Top of rock bluff course NW and SE 1200 f[ee]t above the

- 58.00 Methow River, descend perpendicular 500 feet below
Foot of rock bluff course NW and SE, and descend abruptly slope
SW
- 80.00 Set a granite stone . . . pits impracticable
Land mountainous 65.00 chains balance rolling
Soil 2d and 4th rate
Timber 65.00 chains scattering pine and fir 3d class

General Description

This Township is generally mountainous, the soil ranges from gravelly to a rich dark, sandy loam, the soil along the bottom lands of the Methow and Twitsp Rivers is generally a rich dark sandy loam capable of producing abundant crops with light irrigation, the mountainous land can nearly all be classed as second and third rate, and is covered with an abundant growth of rich and nutritious bunch grasses and many places along the mountain sides on small benches and shallow ravines, will produce good crops without irrigation.

The timber along the rivers and creeks is generally cottonwood of small size, and large scattering pine trees. Mt. Lookout in the south west portion of this township is covered with a fair growth of medium-sized pine and fir timber of fair quality, suitable for ordinary building purposes

The rock in this Township contains more or less iron and other minerals, causing great fluctuations of the magnetic needle, the mean declination for the peat. The average for four observations and two back sights is 23°36'E

This Township is well watered by the Methow and Twitsp Rivers, and Beaver Frasier and McClure Creeks.

The Town of Silver is situated in section 35 on James Byrnes's private land claim, it has one store, a post office, and James Byrnes's private residence. The population is estimated at 5 persons.

The settlers in this Township are generally hardworking and an industrious class of people.

Moses M. Emerson
U.S. Deputy Surveyor

(Emerson 1897f)

Twisp to Headwaters

TOWNSHIP 34 N, RANGE 22 E, W.M.

N89°W on a true line bet[ween] sec[tion]s 6 and 31

Va[riation] 24°315 E

Over Mountains through timber and dense undergrowth
Descend abruptly slope SW .
3.30 Foot of Mountain, thence along over level
3.85 Wagon Road course SE
3.95 Fence course SE and enter Robert Prewitts Field
his house bears S about 6.00 ch[ain]s dist[ant]
23.00 Leave field and enter dense undergrowth course NS
29.20 Wagon Road course NS
40.00 Set a poplar post 4 in[che]s square 4 f[ee]t long 24 in[che]s in
the ground for 1/4 sec[tion] cor[ner] marked. . . .
A Pine tree 28 in[che]s in diam[eter] . . . 202 l[in]ks dist[ant]
A Poplar tree 10 in[che]s in diam[eter] . . . 40 l[in]ks dist[ant]
60.57 **Left bank of Methow River, course N & S.**
. . . **1.63 ch[ain]s distance across river**
Leave undergrowth and timber
62.20 **Right bank Methow River** course S ascend abruptly steep gravel
bank 200 f[ee]t high.
68.00 Brow of bluff course N & S
71.40 Wagon Road course N & S
73.75 Foot of hill course N & S and ascend slope NE
79.04 The cor[ner] to T[ownshi]ps 33 and 34 sec[tion]s 1,6,31 and 36
Land mountainous 21.09 ch[ain]s balance level
Soil, level 1st rate balance 4th rate
Timber 60.57 ch[ain]s scattering Pine and Fir 28 ch[ain]s
37.57 ch[ain]s of this line runs through dense undergrowth of
Cottonwood willow and aspen
R Previts improvements are of permanent character val[ue]
\$500.00

July 7th, 1894

West on a sectional line bet[ween] sec[tion]s 30 and 31

Over rolling land descending
3.65 Road bears NE & SW
3.90 Fence bears NE and SW and enter garden
7.00 Davis' house on line and a barn bears S 3 ch[ain]s dist[ant]

7.50 Fence bears N & SE and bears garden
9.20 Brook 3 l[in]ks wide course SW and orchard of about 2 acres
bears S 3 ch[ain]s dist[ant]
9.70 Road bears SE and SW
10.50 Road bears SW and N
11.50 Point of ridge veers N and NE
13.25 Ditch bears N30°W and S30°E
13.75 Road bears NW and SE
14.10 Fence bears NW and SE and enter alfalfa
14.20 Ditch course NW
34.75 **Left bank Methow river bluffs 25 f[ee]t high. . . .**
[River 4.16 chains wide]
38.91 **Right bank Methow river course S10°E**
40.00 Place for 1/4 sec[tion] cor[ner] in gravel bar
40.60 Intersect a cottonwood 10 in[che]s in diam[eter] for a 1/4 sec[tion]
cor[ner]. . . .
A Cottonwood 15 in[che]s in diam[eter] . . . 16 l[in]ks dist[ant]
A Cottonwood 15 in[che]s in diam[eter] . . . 23 l[in]ks dist[ant]
Thence over river bottom and enter dense aspen thickets bears N
and S
47.00 Leave dense thicket and enter plowed ground bears NE and SW
50.50 Leave plowed ground bears N and S
65.70 Fence and enter corn field bears N & S
69.20 H Plumers house veers N 6 ch[ain]s dist[ant]
69.50 Trail bears N and S and ascend bench
71.25 Road bears NE and SW
73.50 Top of bench and ascend
80.47 Set a granite stone 25x15x12 in[che]s 18 in[che]s in the ground
for closing cor[ner] to sec[tion] 30 and 31
Land level and rolling
Soil some dry loam, 1 & 2 rate
Timber some Cottonwood and aspen along river
Dense undergrowth
Aug. 5, 1900

North bet[ween] sec[tion]s 25 and 30

Va[riation] 25[degrees] E

Over rolling land and through undergrowth and timber
1.50 Top of ridge
Descend abruptly slope NE
14.25 **Right bank Methow River, course comes from NW and runs to E**
. . . 11.26 ch[ain]s dist[ance] across elbow
25.51 **To right bank Methow River course comes from NE and flows SW**

28.50 thence along over gravel bar
 Leave gravel bar, enter dense undergrowth and timber course NE & SW
 40.00 Set a granite stone 12x6x6 in[che]s in the ground for 1/4 sec[ti]on cor[ner] . . .
 A Cottonwood tree 8 in[che]s . . . 14.2 l[in]ks dist[ant]
 A Pine tree 10 in[che]s in diam[eter] . . . 9 l[in]ks dist[ant]
 42.50 Wagon Road course NW & SE
 55.00 **Right bank Methow River, course SE**
 . . . **4.38 ch[ain]s across river**
 59.38 **To left bank Methow River course NW & SE enter undergrowth**
 course NW & SE
 60.50 Foot of steep bank, leave undergrowth course NW & SE
 Ascend slope SW. Leave timber course NW & SE
 61.50 Top of bluff course NW & SE thence over level land
 62.00 Wagon Road course NW & SE
 80.00 Set a granite stone 14x10x8 in[che]s in the round for cor[ner] to sec[ti]on[s] 24,25,19 & 30
 Land mountainous 15.25 ch[ain]s balance level
 Soil 2nd and 3rd rate
 Timber: a very few scattering pine and fir 2nd class
 27.62 ch[ain]s of this line runs through dense undergrowth of
 Poplar and Willows

General Description

This Township is of a rough and mountainous nature. The soil in the mountains is thin and frequently very rocky: **the valleys and the streams and land adjacent are fertile and soil of good quality and fit for agricultural purposes. Methow river and Bear Creek are the principle streams and have a number of settlers in their banks.** There is some scattering pine and fir timber throughout the township. The eastern half of the north boundary is heavily timbered.

The entire township is covered with a good growth of pine and bunch grass and is well adapted for stock ranging purposes.

(Schwartz 1900b)

TOWNSHIP 34N, RANGE 21 E

East on a random line parallel to South Boundary bet[ween] sec[ti]on[s] 24 and 25

Va[riation] 23°26'E

- 40.00 Set temporary 1/4 sec[ti]on] cor[ner]
- 80.01 Intersect East Boundary 38 l[in]ks S of cor[ner] to sec[ti]on[s] 24,25,19 and 30 which is a granite stone 10x8x4 in[ches]
Thence I run
S89°44'W on a true line bet[ween] sec[ti]on[s] 24 and 25
Va[riation] 24° 55'E
Over rolling land, through undergrowth and timber
- 20.00 Fence Course NW & SE and enter field
- 31.00 Fence course N and S leave field, enter garden
- 32.50 Bascomb Statond house bears S 10 l[in]ks dist[ant]
- 33.40 Fence course N and S leave garden
- 35.50 Enter undergrowth course N and S
- 40.00 Set a granite stone 24x12x10 in[ches] in the ground for 1/4 sec[ti]on] cor[ner]. . . .
A pine tree 24 in[che]s in diam[eter] . . . 67 l[in]ks dist[ant]
A pine tree 48 in[che]s in diam[eter] . . . 185 l[in]ks dist[[ant]
John Hartells house bears S 10°W 22 ch[ain]s dist[ant]
- 48.57 **Left bank Methow River comes from N and flows to SE**
. . . . **6.74 ch[ain]s across river making**
- 55.31 **Right bank Methow River**
- 58.76 Enter dense undergrowth course N and S
- 60.81 Leave undergrowth course N and S
- 69.95 L [. . .] house bears N
- 78.41 Trail course NW & SE
- 80.01 The cor[ner] to sec[ti]on[s] 23,24,25 and 26
Land Rolling 80.0 ch[ain]s
Soil 1st rate along river bottom, balance 2nd rate
Timber Scattering Pine and Fir 20.00 ch[ain]s
15.11 ch[ain]s of this line runs through dense undergrowth of poplar and willow
B Stations improvements are of permanent character value \$250
[. . .] improvements are of a permanent character value \$300
[. . .] improvements are of a permanent character value \$300

East on Random line parallel to South Boundary bet[ween] sec[ti]on[s] 13 and 24

Va[riation] 23°10'E

- 40.00 Set temporary 1/4 sec[ti]on] cor[ner]

80.29 Intersect the East Boundary 41 l[in]ks S of the cor[ner] to sec[tion]s 13,24,18 and 19 which is a granite stone 12x10x4 in[che]s
 Thence I run
 S89°43'W on true line bet[ween] sec[tion]s 13 and 24
 Over rolling and broken land, through timber and undergrowth

32.64 Wagon Road course N and S

34.24 Enter undergrowth course N and S

36.79 Leave undergrowth course N and S

40.15 Set a granite stone 14x10x8 in[che]s in the ground for 1/4 sec[tion] cor[ner]

40.58 **Left bank Methow River comes from NW and runs to SW**
 . . . **3.21 ch[ain]s distance across river, making**

43.79 **Right bank Methow River comes from NW and flows to SW**

76.49 Fence course N and S
 Ascend slope E

76.59 Wagon Road course N and S

80.29 The cor[ner] to sec[tion]s 13, 14, 23 and 24
 Land rolling 80.29 ch[ain]s
 Soil, 1st and 2nd rate
 Timber scattering pine and fir 2nd class
 M Stones improvements are of a permanent character value \$250

East on a random line parallel to South Boundary bet[ween] sec[tion]s 12 and 13

Va[riation] 23°48'E

40.00 Set temporary 1/4 sec[tion] cor[ner]

80.20 Intersect E boundary 26 l[in]ks S of cor[ner] to sec[tion]s 12,13,7 & 18 which is a granite stone 18x18x12 in[che]s
 A Pine tree 10 in[che]s in diam[eter] . . . 3 l[in]ks dist[ant]
 Thence I run
 S89°49'W on a true line bet[ween] sec[tion]s 12 and 13
 Va[riation] 24°29'E
 Over rolling land

19.20 Mrs M S Fellers house bears S22°15' E

22.60 Wagon Road course SE & NW

26.60 Wagon Road course NE & SW

27.95 Fence Course NE & SW

40.10 Set a granite stone 12x8x6 in[che]s 8 in[che]s in the ground for 1/4 sec[tion] cor[ner]

42.00 The Pulland house bears S5°E

44.70 Irrigation ditch course N and S

57.45 Wagon Road course NE and SW

67.24 **Left bank Methow River, course SW**
 . . . 6.75 ch[ain]s distance across River making
 73.99 **To right bank Methow River Course SW**
 80.20 The cor[ner] to sec[ti]on]s 11,12,13 and 14
 Land rolling 80.20 ch[ain]s
 Soil 1st and 2nd rate
 Timber: none
 July 28th, 1897

N0°01'W parallel to East Boundary bet[ween] sec[ti]on]s 11 and 12
 Va[riation] 23°55'E

Over mountains and level land through undergrowth
 Along over level land
 13.85 **Right bank Methow River Course NW & SE**
 . . . 3.59 ch[ain]s distance across river, making
 17.44 **To left bank of Methow River course SE thence through**
undergrowth
 20.00 Leave undergrowth course E and W
 24.40 Wagon Road Course NW & SE
 35.10 Fence Course E and W enter field
 40.00 Set a granite stone 14x10x8 in[ches] in the ground for 1/4
 sec[ti]on] cor[ner]
 No trees in limits
 Bogarts house bears S19°45'E
 N Stones house bears N41°30'W
 46.50 Fence course NE & SW leave field
 47.00 Wagon Road course NE & SW
 Ascend Mt. side slope NW
 55.50 Wagon Road course NW & SE
 66.75 N Stones house bears S33°15'W
 80.00 Set a granite stone 14x10x8 in[che]s in the ground for co[ner] to
 sec[ti]on]s 1,2,11 and 12
 No trees in limits
 Land mountainous 33.00 ch[ain]s balance level
 Soil 1st and 3rd rate
 Timber none
 Undergrowth 2.56 ch[ain]s dense poplar and willow

East on Random Line parallel to South Boundary bet[ween] sec[ti]on]s 2 and 11
 Va[riation] 24°E

40.00 Set temporary 1/4 sec[ti]on] cor[ner]
 79.83 Intersect N and S line 14 l[in]ks S of cor[ner] to sec[ti]on]s 1,2,11

and 12
 Thence I run
 S89°54'W on a true line bet[ween] sec[ti]on]s 2 and 11
 Over broken land

22.43 Wagon Road Course NW & SE

25.73 Wagon Road Course NW & SE

32.29 **Left bank Methow River course SE**
 . . . 2.74 ch[ain]s distance across river making

35.03 **To right bank Methow River course SE**

39.91 Set a granite stone 16x14x12 in[che]s 10 in[che]s in the ground
 for 1/4 sec[ti]on] cor[ner]
 No trees in limits

49.58 Wagon Road Course NW & SE

64.58 Trail course NW & SE. Foot of hill
 Ascend abruptly slope NE

79.83 The cor[ner] to sec[ti]on]s 2,3,10 and 11
 Land rolling 79.83 ch[ain]s
 Soil 2nd rate
 Timber: none

N0°02'W on Random Line parallel to East Boundary bet[ween] sec[ti]on]s 2 and 3

Va[riation] 24°03'E

40.00 Set temporary 1/4 sec[ti]on] cor[ner]

80.14 Intersect N boundary 25 l[in]ks E of cor[ner] to sec[ti]on]s 2,3,34
 and 35 which is a granite stone 8x6x4 in[che]s above ground
 Thence I run
 S0°12'E on a true line bet[ween] sec[ti]on]s 2 and 3
 Va[riation] 23°40'E

11.14 Over broken land through timber and undergrowth
 Top of hill

13.14 **To right bank East branch Methow River Course comes from N
 and flows SE**

34.64 Wagon Road course NW & SE

35.39 Foot of hill thence along level through undergrowth and fallen
 timber

40.14 Set a cottonwood post 3 f[ee]t long 3 in[che]s square 12 in[che]s
 in the ground for 1/4 sec[ti]on] cor[ner]
 A Cottonwood tree 12 in[che]s . . . 7 l[in]ks dist[ant]
 A Cottonwood tree 8 in[ches] . . . 18 l[in]ks dist[ant]

43.51 **Left bank west branch Methow River course E**
 . . . 2.33 [chains] distance across river, making

47.84 **To Right bank west branch Methow River course E**
 54.39 Slough 25 l[in]ks wide leave undergrowth
 enter Walter Frisbee's field
 55.14 Walter Frisbees house bears W 300 ch[ain]s dist[ant]
 64.39 Fence course NW & SE leave field
 64.64 Wagon Road Course NW & SE Foot of hill
 Ascend abruptly slope NE
 80.14 The Cor[ner] to sec[tion]s 2,3,10 and 11
 Land rolling 80.14 ch[ain]s
 Soil 1st and 3rd rate
 Timber Cottonwood along river, 19 ch[ain]s of this line runs
 through dense undergrowth of poplar and willows and fallen timber
 Walter Fresbee's improvements are of a permanent character
 value \$400
 July 31st, 1894

N0°03'W on random line parallel to East Boundary bet[ween] sec[tion]s 3 and 4

Va[riation] 23°30'E
 40.00 Set temporary 1/4 sec[tion] cor[ner]
 80.31 Intersect N boundary of T[ownshi]p 13 l[in]ks W of the cor[ner] to
 sec[tions] 3,4,33 and 34 which is a granite stone 10x8x4 in[che]s
 above ground
 Thence I run
 S0°03'W on a true line bet[ween] sec[tion]s 3 and 4
 Va[riation] 23°12'E
 Over level land through timber and undergrowth
 Along through undergrowth
 16.16 Fence course NE & SW
 23.71 Irrigation ditch course E & W
 24.81 Leave undergrowth course E & W
 25.52 **North bank west branch Methow river course E**
 . . . 1.91 ch[ain]s distance across river, making
 27.43 **To south bank west branch Methow River course E**
Enter undergrowth course E & W
 35.31 Leave undergrowth course E & W. Enter Schulinbegard field
 40.31 Set a granite stone 12x10x8 in[che]s 8 in[che]s in the ground for
 1/4 sec[tion] cor[ner]
 No trees in limits
 47.06 Fence course NW & SE leave field
 55.31 Enter undergrowth, course E & W
 57.06 Leave undergrowth course E & W
 65.81 Wagon Road course E & W
 68.30 North side of marsh

. . . 7.38 ch[ain]s distance across marsh
 75.18 North side of slough, water 2 f[ee]t deep
 75.68 South side of marsh and slough course E & W and
 ascend slope N
 80.00 The cor[ner] to sec[tion]s 3,9 and 10
 Land 75.68 ch[ain]s nearly level, balance rolling
 Soil 1st and 2nd rate
 Timber: a very few pine and fir
 34.44 chain's of this line run\$ through dense undergrowth of
 poplar and willows
 August 2d, 1894

General Description

This Township is rough and mountainous, except that portion along the Methow River valley, which is a dark sandy loam producing large crops with irrigation, along the mountains are many shallow ravines and small table lands capable of producing good crops without irrigation and in timber will furnish homes for many settlers. The balance of the Township is mostly adaptable to grazing, the mountains are covered with an excellent growth of bunch grass and are watered [by] good springs and small branches of pure water and many small lakes.

The western portion of this Township is mostly covered with pine and fir timber good for building purposes.

Moses M Emerson
 U.S. Deputy Surveyor

(Emerson 1894b)

TOWNSHIP 35N, RANGE 21 E, W.M.

West on a true line bet[ween] sec[ti]on[s] 4 and 33

Va[riation] 23°15'E

- Over rolling and level land through undergrowth
 Descend slope SW through undergrowth
- 2.00 Foot of hill thence along over level land
- 9.50 Leave undergrowth course N and S
- 27.60 Fence course NW & SE enter field
- 40.00 Set a granite stone 18x8x6 in[che]s in the ground for 1/4 sec[ti]on] cor[ner]
 No trees in limits
- 48.10 **Enter undergrowth course N and S**
- 49.50 **Left bank West branch Methow River course SE**
- 52.00 **Right bank West branch Methow River course SE**
[River 2.5 chains wide]
- 56.75 **Leave undergrowth course NW & SE**
- 57.00 County wagon road NW & SE
- 69.90 Irrigation ditch course NW & SE
- 75.75 Irrigation ditch course NE & SW
- 76.50 Wagon Road course NW & SE
- 80.00 Set a granite stone 12x10x8 in[che]s in the ground for cor[ner] to sec[ti]on] 4,5,32 and 33
 No trees in limits
 Land: Rolling 2.00 ch[ain]s balance level
 Soil: 2nd rate
 Timber: None 17.65 ch[ain]s of this line runs through dense undergrowth of poplar and willow.

N0°04'W parallel to East Boundary bet[ween] sec[ti]on[s] 32 & 33

Va[riation] 23°58'E

- Over mountains through timber and dense undergrowth along level
- 2.50 Wagon Road course NW & SE
- 15.00 Dry water bed course E and W
- 29.60 County wagon Road course NW & SE
- 33.00 **Enter dense undergrowth course NW & SE**
- 35.15 **Right bank west Branch Methow River course SE**
Set flag for triangulation, cross river to Left bank . . .
3.13 ch[ain]s dist[ant] across river making
- 38.28 **Left bank Course SE**
- 38.80 Irrigation ditch course E and W

39.25 Leave undergrowth course E and W
 Trail course NW & SE
 Foot of mountain
 Ascend abruptly slope SW
 40.00 Set a granite stone 12x12x12 in[che]s 8 in[che]s in the ground for
 1/4 sec[ti]on cor[ner]
 A pine tree 30 in[che]s in diam[eter] . . . 168 l[in]ks dist[ant]
 A pine tree 36 in[che]s in diam[eter] . . . 122 l[in]ks dist[ant]
 50.42 Wagon road course NW & SE
 68.50 Summit course SE & NW
 Descend slope NE
 80.00 Set a granite stone 12x12x8 in[che]s 8 in[che]s in the ground for
 cor[ner] to sec[ti]on[s] 28,29,32 and 33
 Land mountainous 40.75 ch[ain]s balance level
 Soil level 1st rate balance level
Timber, a few pine and fir along river, 5.80 ch[ain]s of this line
 runs through dense undergrowth of aspen and willow.

East on Random Line parallel to South Boundary betw[een] sec[ti]on[s] 29 and 32

Va[riation] 23°30'E
 40.00 Set temporary 1/4 sec[ti]on cor[ner]
 80.00 Intersect N and S line 30 l[in]ks S of the cor[ner] to sec[ti]on[s]
 28,29,32 and 33
 Thence I run
 S89°47'W on a true line betw[een] sec[ti]on[s] 29 and 32
 Va[riation] 23°35'E
 Over mountains and level land through dense undergrowth and
 timber
 Ascend slope NE
 10.50 Summit course NW & SE
 Descend slope SW
 20.00 Foot of hill course NW & SE
 Thence along level table land
 40.00 Set a granite stone 20x10x10 8 in[che]s in the ground for 1/4
 sec[ti]on cor[ner]
 No trees in limits
 41.00 Brow of bench 400 f[ee]t above River course NW & SE
 51.75 **Left bank west branch Methow River course SE**
 55.00 **Right bank course SE**
[River 3.25 chains wide]
Enter dense undergrowth and timber course NW & SE
 63.00 Mill race 50 l[in]ks wide course NE & SW

80.00 The cor[ner] to sec[ti]on[s] 29,30,31 and 32
 Land mountainous 30.75 ch[ain]s balance well
 Soil: 1st and 2nd rate
 Timber Pine Fir and Cottonwood 25 ch[ain]s of this line runs
 through dense undergrowth of aspen and willow.

N0°05'W parallel to East Boundary bet[ween] sec[ti]on[s] 29 and 30
 Va[riation] 30°54'E

Over mountains and level land through timber and dense
 undergrowth.

3.75 Trail bears E and W
 7.75 Leave dense undergrowth course NW & SE
 thence over gravel bar

12.35 **Right bank West Branch Methow River course SE**
 16.00 **Left bank course SE**
[River 3.65 chains wide]
Enter dense undergrowth course NW & SE

17.60 Right bank of slough course SE
 18.75 Left bank course SE
 21.00 Wagon Road course NW & SE
 Foot of mountain
 Ascend slope SW abruptly

21.75 Leave dense undergrowth and timber course NW & SE
 37.10 Wagon Road course NE & SW
 40.00 Set a granite stone 12x12x8 in[che]s 8 in[che]s in the ground for
 1/4 sec[ti]on cor[ner]
 No trees in limits

46.00 Earl Johnson's house bears S38°40'W
 Albert [. . .] house bears N44°35'W

68.50 Trail and wagon Road course NW & SE
 78.55 Trail course NE & SW
 80.00 Set a granite stone 14x12x10 in[che]s 10 in[che]s in the ground
 for cor[ner] to sec[ti]on[s] 19,20,29 and 30
 No trees in limits
 Land: mountainous 29 ch[ain]s balance level
 Soil: 1st and 2nd rate
 Timber: Pine and Fir
 13.50 ch[ain]s of this line runs through dense undergrowth of
 aspen and willow
 Earl Johnson's improvements are of a permanent character value
 \$50.00
 Albert [. . .]'s are of a permanent character has about 80
 acres under fence and cultivation.

North between sections 25 and 30

Variation 23°35'E

- Over mountains through heavy timber and dense undergrowth
Descend abruptly slope NE
- .75 Bottom of ravine 25 feet deep course West & East
ascend abruptly slope SE
- 3.00 Top of ridge 50 feet high course East and descend
abruptly slope NE
- 10.75 Slough 25 [in]ks wide course SE and foot of mountain
- 11.00 Enter dense undergrowth course NW & SE
- 14.50 Wagon Road course NW & SE
- 19.40 Slough 50 [in]ks wide course NW & SE
- 40.00 Set a willow post 8 in[che]s square 4 f[ee]t long 24 in[che]s in
ground for 1/4 sec[ti]on cor[ner] . . . from which
A willow tree 5 in[che]s in diam[eter] . . . 12 [in]ks dist[ant]
A willow tree 4 in[che]s in diam[eter] . . . 25 [in]ks dist[ant]
Pits impractical
- 58.75 **Right Bank of the west branch of the Methow River course SE**
- 63.25 **Left Bank of the west branch of the Methow River course SE**
[River 4.5 chains wide]
thence through dense undergrowth
- 80.00 Set an aspen post 4 feet long 4 in[che]s square 24 in[che]s in the
ground for corner to sec[ti]on[s] 19,30,24 and 25
An aspen tree 6 in[che]s in diam[eter] . . . 72 [in]ks dist[ant]
An aspen tree 8 in[che]s in diam[eter] . . . 35 [in]ks dist[ant]
An aspen tree 4 in[che]s in diam[eter] . . . 51 [in]ks dist[ant]
An aspen tree 8 in[che]s in diam[eter] . . . 75 [in]ks dist[ant]
Land mountainous 10.75 ch[ain]s
Balance level through dense undergrowth of aspen, willow
and alder.
Soil on level land first rate on Mountains 2nd and 3rd rate

General Description

This Township contains considerable good agricultural land, a rich dark sandy loam producing excellent crops without irrigation. The hills and mountains are covered with a heavy growth of bunch grass and is well adapted to stock raising. **It is well watered by numerous springs, spring branches and small creeks, besides the East and West Branches of the Methow River.**

The mountains in the NE and NW are covered with a fair growth of pine and fir timber suitable for building purposes.

This T[ownshi]p has one Saw Mill in Sec. 31

Moses M. Emmerson

U.S. Deputy Surveyor

(Emerson 1894d)

TOWNSHIP 35N, RANGE 20 E, W.M.

On random line between sections 24 & 25

40.00 Set temporary 1/4 section corner
80.10 Intersect E boundary of Township 97 l[inks] N of corner to
sections 19,24,25 & 30 which is a post 4 inches square 4 feet
above ground
North between sections 25 & 30
Descend through heavy timber and thick brush
.5 Ravine 20 feet deep bears East. Ascend 50 feet
3.00 Top of ridge bears E & W. Descend
10.80 A slough or pond 25 l[inks] wide course SE
11.10 Enter dense brush E & W
14.50 Road bears NW & SE
19.50 Slough 50 l[inks] wide veers NW & SE
40.00 The 1/4 section corner which is a willow post 3 inches square
2 feet above ground
58.70 **Right bank of Methow river**
63.25 **Left bank of Methow river**
[River 4.55 chains wide]
79.10 The corner to sections 19,24,25 & 30 bears East 30 l[inks]
distance. The corner of this boundary is therefore N13°E

N 1°W between sections 23 & 24

Descend through heavy timber and undergrowth
8.00 Road bears NW & SE
15.50 Steep descent bears SW & East, total distance 300 feet to
17.00 Ravine N 50°E ascent 30 feet to
22.00 Ridge bears NW slopes E descend 120 feet to
24.30 Slough 75 l[inks] wide course SE enter balm timber and thick
brush
35.00 Enter gravel bar bears NW & SE
36.00 **Right bank of Methow river 2 feet deep flows S80°E**
37.50 **Left bank of Methow river (measured across)**
[River 1.5 chains wide]
38.00 Large gravel bar
38.25 Enter thick timber and brush
40.00 Set post 4 feet long 4 inches square 2 feet in ground for 1/4
section corner to sections 23 & 24

45.44 Slough 50 l[in]ks wide course S80°E from S80°W
50.00 Ascend bench 5 f[ee]t and enter heavy pine timber
68.90 Wire fence bears W and N 30 l[in]ks W of line
Enter Aspen thicket
80.00 Set an aspen post 4 f[ee]t long 4 in[che]s square 2 f[ee]t in ground
for cor[ner] to sec[tion]s 13,14,23 & 24
An aspen tree 5 in[che]s in diam[eter] . . . 34 l[in]ks dist[ant]
An aspen tree 12 in[che]s in diam[eter] . . . 101 l[in]ks dist[ant]
An aspen tree 12 in[che]s in diam[eter] . . . 146 l[in]ks dist[ant]
An aspen tree 12 in[che]s in diam[eter] . . . 126 l[in]ks dist[ant]
Land 24 ch[ain]s mountainous bal[ance] level
Soil 1st to 3rd rate
Timber heavy pine fir and aspen
Undergrowth the same and brush very dense
Heavily timbered land and dense undergrowth 80.00 ch[ain]s

West on a true line bet[ween] sec[tion]s 14 & 23

On level land through aspen & pine

.25 Fence bears N & S
18.90 A slough 20 l[in]ks wide course SE
20.90 Wire fence bears N80°W S20°E 50 l[in]ks thence E
34.25 A slough 30 l[in]ks wide course S60°E
40.00 Set a granite stone 20x20x8 in[che]s 14 in[che]s in the ground for
1/4 sec[tion] cor[ner] to sec[tion]s 14 & 23
Pine 36 in[che]s diam[eter] . . . 55 l[in]ks dist[ant]
44.75 **Left bank Methow river 1st channel 1.00 ch[ain] wide bears South
4.00 ch[ain]s thence S80°E**
47.80 Offset north 7.55 ch[ain]s thence West on this line
48.50 **2nd channel 60 l[in]ks wide flows S75°E**
50.50 **3rd channel 60 l[in]ks wide flows S60°E**
66.61 Offset south 7.55 ch[ain]s to line, thence West
78.00 Leave timber and brush Enter gravel bar extending 1.00 ch[ain]
NE 8 ch[ain]s SW Large drift jam each [nl]
77.58 Set a granite stone 22x12x8 in[che]s in ground for witness cor[ner]
to sec[tion]s 14,15,22 & 23
An aspen tree 6 in[che]s in diam[eter] . . . 35 l[in]ks dist[ant]
A balm 15 in[che]s in diam[eter] . . . 37 l[in]ks dist[ant]
A balm 22 in[che]s in diam[eter] . . . 18 l[in]ks dist[ant]
An aspen tree 22 in[che]s in diam[eter] . . . 42 l[in]ks dist[ant]
80.00 The point for cor[ner] to sec[tion]s 14,15,22 & 23 falls on a bar on
river
Land level soil 1st to 4th rate

Heavily timbered with balm pine aspen 80.00 ch[ain]s
Undergrowth with aspen willow alder balm Very thick
August 30, 1900

N2°W bet[ween] sec[tion]s 14 & 15

1.35 Leave gravel bar. **Left bank of river.** I set a granite stone 24x9x6
in[che]s 16 in[che]s in the ground for witness cor[ner] to sec[tion]s
14,15,22 & 23
A Belsaw 18 in[che]s diam[eter] . . . 17 l[in]ks dist[ant]
A Belsaw 20 in[che]s diam[eter] . . . 30 l[in]ks dist[ant]
Enter heavy timber and dense brush
6.30 Slough 70 l[in]ks wide course S80°E from N10°E and N70°W
15.80 Dry bed of overflow channel course S75°E
17.00 Ascend 6 f[ee]t to bench bears NW & SE
40.00 Set aspen post 4 f[ee]t long 4 in[che]s square 2 f[ee]t in ground
for 1/4 sec[tion] cor[ner] to sec[tion]s 14 & 15
A pine 30 in[che]s dia[meter] . . . 27 l[in]ks dist[ant]
A Fir 8 in[che]s dia[meter] . . . 40 l[in]ks dist[ant]
49.00 Enter opening bears E & W
52.00 Nick Newells house bears E 2.00 ch[ain]s
55.30 Road bears NW & SE
61.00 Ditch 6 l[in]ks wide course S70°E
61.50 Ascend mountain bears NW & SE over ledges and rock slides 400
f[ee]t to
80.00 Set granite stone 16x10x8 in[che]s 10 in[che]s in ground for
cor[ner] to sec[tion]s 10,11,14 & 15
A pine 22 in[che]s in diam[eter] . . . 160 l[in]ks dist[ant]
A fir 22 in[che]s in diam[eter] . . . 58 l[in]ks dist[ant]
A fir 26 in[che]s in diam[eter] . . . 60 l[in]ks dist[ant]
A fir 30 in[che]s in diam[eter] . . . 319 l[in]ks dist[ant]
Land 61.00 ch[ain]s level soil 1st rate
19.00 ch[ain]s mountainous rocky 4th rate
Heavily timbered with pine fir balm 80.00 ch[ain]s
Undergrowth the same with hawthorne and rose very thick

East on a random line bet[ween] sec[tion]s 10 & 15

40.00 Set temporary 1/4 sec[tion] cor[ner]
79.80 Intersect N & S line 18 l[in]ks N of cor[ner] to sec[tion]s 10,11,14
& 15
Thence I run
N89°52'W on a true line bet[ween] sec[tion]s 10 & 15
Descend W slope of mountain through heavy timber and thick

brush
 10.10 Road bears NW & SE
 11.15 Slough 40 l[in]ks wide course S10°E. Floor to
 M[oun]t[ain]s 200 f[ee]t dist[ant]. Over river bottom in dense
 brush.
 21.73 **Left bank Methow river bears S40°W for 6.00 ch[ain]s
 thence SE**
 24.50 Water [nl]. On gravel bar
 28.00 Right bank of river 3 f[ee]t high bears S40°W
 In timber and brush
 31.70 Slough course S
 39.90 Set a fir post 4 f[ee]t long 4 in[che]s square 2 f[ee]t in ground for
 1/4 sec[ti]on cor[n]er to sec[ti]on[s] 10 & 15
 A fir 18 in[che]s in diam[eter] . . . 25 l[in]ks dist[ant]
 A fir 20 in[che]s in diam[eter] . . . 18 l[in]ks dist[ant]
 67.70 Road bears NW & SE
 78.90 Ditch 2 f[ee]t wide course S 60°E
 79.10 Road bears NW & SE
 79.80 The cor[n]er to sec[ti]on[s] 9,10,15 & 16
 Land level 77.00 ch[ain]s bal[ance] mountainous
 Soil 2nd rate
 Timber pine, fir and balm very heavy
 Undergrowth dense with hawthorne & rose very thick
 Heavily timbered land with dense undergrowth 79.80 ch[ain]s
 Sept[ember] 1st, 1900

N[orth] 3°W betw[een] sec[ti]on[s] 9 & 10

Over level land through heavy pine timber & dense brush
 1.03 Ditch 2 f[ee]t wide course E
 1.40 Road bears NW & SE
 1.61 A pine 30 in[che]s diam[eter] marked with 2 notches on N & S
 faces
 11.25 Road bears NW & SE
 40.00 Set a post 4 f[ee]t long 4 in[che]s square 2 f[ee]t in ground for 1/4
 sec[ti]on cor[n]er to sec[ti]on[s] 9 & 10
 A pine 10 in[che]s diam[eter] . . . 79 l[in]ks dist[ant]
 A pine 20 in[che]s diam[eter] . . . 98 l[in]ks dist[ant]
 69.60 **Methow river. Right bank (measured across wading)**
 71.10 **Left bank. River flow S 50°E On gravel bar.**
[River 1.50 chains wide]
 77.50 Road bears NW & SE
 80.00 Set a temporary stone 15x10x8 in[che]s 10 in[che]s in ground for
 cor[n]er to sec[ti]on[s] 3,4,9 & 10

A pine 24 in[che]s dia[meter] . . . 52 l[in]ks dist[ant]
 A pine 10 in[che]s dia[meter] . . . 56 l[in]ks dist[ant]
 A fir 15 in[che]s dia[meter] . . . 32 l[in]ks dist[ant]
 A fir 22 in[che]s dia[meter] . . . 86 l[in]ks dist[ant]
 Land level
 Soil 2nd rate
 Heavily timbered with pine & fir 80.00 ch[ain]s
 Undergrowth same very thick in places
 Sept[ember] 2, 1900

West on true line bet[ween] sec[ti]on[s] 4 & 9

1.00 Descend through heavy timber & thick brush
 Road bears NW & SE
 3.00 **Left bank of Methow river found distance across by measuring wading**
 4.50 **Right bank, River flows S30°E**
 On gravel bar
[River 1.5 chains wide]
 5.75 Enter heavy timber and dense undergrowth
 10.20 Slough 20 l[in]ks wide course South
 20.0 Slough 30 l[in]ks wide course S30°E
 40.00 Set a fir post 4 f[ee]t long 4 in[che]s square 2 f[ee]t in ground for 1/4 sec[ti]on cor[n]er to sec[ti]on[s] 4 & 9
 A fir 10 in[che]s dia[meter] . . . 34 l[in]ks dist[ant]
 A fir 10 in[che]s dia[meter] . . . 37 l[in]ks dist[ant]
 55.40 Brook 8 l[in]ks wide course S30°E Briggs house bears South 5 ch[ain]s dist[ant]
 57.00 Ascend to [nl] bottom bears NW & SE
 57.50 Fence bears NW & SE
 62.30 Ditch 3 f[ee]t wide course S30°E
 60 l[in]ks S of line a ditch [nl] course East
 80.00 Set a sandstone 15x15x5 in[che]s 10 in[che]s in ground for cor[n]er to sec[ti]on[s] 4,5,8 & 9
 A fir 40 in[che]s dia[meter] . . . 157 l[in]ks dist[ant]
 A aspen 6 in[che]s dia[meter] . . . 159 l[in]ks dist[ant]
 A pine 36 in[che]s dia[meter] . . . 152 l[in]ks dist[ant]
 A pine 28 in[che]s dia[meter] . . . 136 l[in]ks dist[ant]
 Land mostly level
 Soil 1st to 2nd rate
 Timber heavy pine balm & fir
 Undergrowth same and hawthorne very dense
 Heavily timbered land 80.00 ch[ain]s

N4'W bet[ween] sec[ti]on[s] 4 & 5

10.60 On level land through heavy timber and brush
irrigation ditch 2 f[ee]t wide course S75°E
16.10 Road bears E & W
34.50 Enter river bottom bears SE & NW
40.00 **On right bank Methow river set a granite stone 20x10x8 in[che]s
14 in[che]s in ground for 1/4 sec[ti]on] cor[n]er] to sec[ti]on[s] 4 & 5 .**
...
A fir 28 in[che]s dia[meter] . . . 23 l[in]ks dist[ant]
An aspen 10 in[che]s dia[meter] . . . 87 l[in]ks dist[ant]
40.50 **Water edge. River flows S80°E**
42.50 **Left bank of river. Enter very thick brush
[River 2 chains wide]**
59.00 Slough 15 l[in]ks wide, course E
63.50 Slough 12 l[in]ks wide, course S50°E
66.00 Ascend SW slope through heavy timber
66.20 Road bears NW & SE
76.00 Top of bench 175 f[ee]t descend
80.00 Set a granite stone 15x10x10 in[che]s 10 in[che]s in ground for
cor[n]er] to sec[ti]on[s] 4,5,32 & 33
A fir 15 in[che]s dia[meter] . . . 147 l[in]ks dist[ant]
A pine 10 in[che]s dia[meter] . . . 172 l[in]ks dist[ant]
A pine 22 in[che]s dia[meter] . . . 190 l[in]ks dist[ant]
A pine 28 in[che]s dia[meter] . . . 151 l[in]ks dist[ant]
Land 29.00 ch[ain]s level soil 1st rate
Balance level and rolling soil 2 - 3rd rate
Timber heavy Pine Balm and Fir
Undergrowth very dense. Willow Birch Aspen
Alder Hawthorne and Rosebushes
Heavily timbered land 80.00 ch[ain]s

West on a true line bet[ween] sec[ti]on[s] 5 & 32

4.50 Descend steep bank, bears NW & SE
17.80 Road bears SW & NE
18.56 **Left bank of Methow river course S60°W
[River 4.53 chains wide]**
23.09 **Right bank of river 5 f[ee]t high**
Over flat
36.00 Slough 30 l[in]ks wide course S70°W
40.00 Set a granite stone 20x15x8 in[che]s 14 in[che]s in ground for 1/4
sec[ti]on] cor[n]er] to sec[ti]on[s] 5 & 32
A Balm 18 in[che]s dia[meter] . . . 52 l[in]ks dist[ant]

40.25 A Balm 20 in[che]s dia[meter] . . . 47 l[in]ks dist[ant]
 Slough 80 l[in]ks wide course S30°W
 47.00 Slough 90 l[in]ks wide course S40°E
 49.90 Slough 20 l[in]ks wide course S20°E
 57.80 [nl]
 59.40 Dry bed of boulder creek course NE
 72.00 Dry bed of boulders creek course NE
 80.00 Set a sandstone 20x15x10 in[che]s 14 in[che]s in ground for
 cor[ner] to sec[ti]on[s] 5,6,31 & 32
 A pine 28 in[che]s dia[meter] . . . 156 l[in]ks dist[ant]
 A pine 28 in[che]s dia[meter] . . . 60 l[in]ks dist[ant]
 A pine 28 in[che]s dia[meter] . . . 41 l[in]ks dist[ant]
 A pine 30 in[che]s dia[meter] . . . 77 l[in]ks dist[ant]
 Land 61.50 ch[ain]s level soil 2nd rate
 Balance broken soil 3rd rate
 Timber heavy Pine Balm and Fir
 Undergrowth same with Willow Birch Hawthorne and rose very
 dense Heavily timbered 80.00 ch[ain]s

General Description

The land in this survey is a narrow valley of alluvial land between high rugged mountains.

The greater portion of the land surveyed is suitable for agriculture though rather expensive to clear. When cleared however the land will be very valuable as the numerous mines in the vicinity will furnish the best of markets. The timber is also valuable and will to a great extent pay for clearing the land. There is a small sawmill in section 13.

There are a number of settlers in the T[ownshi]p. Their improvements wherever visible from the lines are described the field notes.

The Methow river, a rapid rather shallow stream of clear water flows through nearly every served section. The land is well watered.

(Schwartz 1900d)

TOWNSHIP 36N, RANGE 20 E, W.M.

N0°5'W between] section]s 31 & 32

Over level land, through heavy timber and dense undergrowth, exceptionally difficult to survey.

6.57 **To right bank of Methow River.**

9.00 **Left bank of Methow River. The river at this place is from 1 to 3 feet deep, clear pure water, swift current, course S40°E**

13.26 A pine tree 30 in[che]s diam[eter] on line, marked with 2 notches on N and S side

39.00 Level low bottom land covered with fir, pine, cottonwood, maple, and alder timber, with dense undergrowth and enter higher land, covered with pine and fir timber, scattering undergrowth.

40.00 Set a granite stone 24x12x12 in[che]s 16 in[che]s in the ground for 1/4 sec[ti]on] cor[n]er]
A fir 8 in[che]s dia[meter] . . . 62 l[in]ks dist[ant]
A pine 26 in[che]s dia[meter] . . . 130 l[in]ks dist[ant]

67.33 Wagon Road

78.73 Irrigation ditch, 5 l[in]ks wide, course S70°E

80.00 Set granite stone 17x12x10 in[che]s, 12 in[che]s in the ground for cor[n]er] of sec[ti]on]s 29,30,31 and 32
A pine 13 in[che]s dia[meter] . . . 96 l[in]ks dist[ant]
A pine 18 in[che]s dia[meter] . . . 104 l[in]ks dist[ant]
A pine 15 in[che]s dia[meter] . . . 63 l[in]ks dist[ant]
A pine 16 in[che]s dia[meter] . . . 173 l[in]ks dist[ant]

Land level
Soil, loam, with some rock on W 1/2 mile; 1st and 2nd rate
Timber, pine, fir, cottonwood, maple and alder; undergrowth of willow, vine maple, rose briars and small timber.
Land covered with heavy timber and dense undergrowth and exceptionally difficult to survey 39.00 ch[ain]s
May 27, 1908

N89°54'W on random line between] sec[ti]on]s 30 and 31

40.00 Set temp[orary] 1/4 sec[ti]on] cor[n]er]

48.60 **To left bank of Methow river**
[River 3.30 chains wide]

51.90 **To right bank of river**

77.70 Intersect W b[oun]d[ar]y of T[ownshi]p 9 l[in]ks S of cor[n]er] of sec[ti]on]s 25,30,31 and 36
Thence I run
S89°50'E on true line between] sec[ti]on]s 30 and 31

Over level ground covered with heavy timber and dense undergrowth, exceptionally difficult to survey.

5.40 Wagon road, bears S45°E to Winthrop and N45°W

25.80 **To right bank of Methow river**

29.10 **To left bank Methow river, course S45°E**
[River 3.30 chains wide]

37.70 Set a boulder 14x12x6 in[che]s, 10 in[che]s in the ground for 1/4 sec[ti]on cor[ner]
A pine 10 in[che]s dia[me]ter . . . 5 l[in]ks dist[ant]
A pine 12 in[che]s dia[me]ter . . . 29 l[in]ks dist[ant]

43.00 Leave heavy timber and dense undergrowth and enter scattering timber and brush, bears NW and SE

52.34 Wagon road, bears N60°W and S60°E to Winthrop
Ellen McCain's house bears N 4 ch[ain]s

52.44 S cor[ner] of Ellen McCain's field bears N34 l[in]ks

60.00 Leave scattering, enter heavy timber, bears N and S

77.70 To cor[ner] of sec[ti]ons 29,30,31 and 32
Land level
Soil, loam with some stone; 1st and 2nd rate.
Timber, pine, fir, cottonwood, maple and alder;
undergrowth, vine maple, willow and small timber.
Land covered with heavy timber and dense undergrowth and exceptionally difficult to survey 43.00 ch[ain]s
May 29, 1908.

North bet[ween] sec[ti]ons 25 and 30

Over level ground covered with heavy timber and dense undergrowth, and exceptionally difficult to survey.

2.15 Wagon road, bears N70°W and S70°E to Winthrop.

20.80 **To right bank of Methow River.**

22.50 **To left bank of Methow River. The River at this point is from 1 to 3 f[ee]t deep, clear water, and swift current, course S75°E**
[River 1.7 chains wide]

39.90 Wagon road, bears S55°E to Winthrop, and N55°W to mines.

40.00 Set a boulder 24x12x10 in[che]s, 18 in[che]s in the ground for 1/4 sec[ti]on cor[ner]
A pine 20 in[che]s dia[me]ter . . . 128 l[in]ks dist[ant]
A pine 22 in[che]s dia[me]ter . . . 98 l[in]ks dist[ant]

70.80 Wagon road, bears E and W

73.00 Begin steep ascent, over rock slide, bears E and W

80.00 At a point 200 f[ee]t above level ground, set a basalt stone 24x10x9 in[che]s, 12 in[che]s in the ground for cor[ner] of sec[ti]ons 19,24,25 and 30

A pine 30 in[che]s dia[eter] . . . 275 l[in]ks dist[ant]
 A pine 22 in[che]s dia[eter] . . . 298 l[in]ks dist[ant]
 A pine 36 in[che]s dia[eter] . . . 117 l[in]ks dist[ant]
 Land mountainous and level.
 Soil, clay and loam; 1st rate is bottom, 4th rate on mountain.
 Timber, pine, fir, cottonwood, and maple, with undergrowth of
 small timber, deerbrush, willow, vinemaple and alder.
 Mountains or heavily timbered land, covered with dense
 undergrowth and exceptionally difficult survey 80.00 ch[ain]s
 April 24, 1908

General Description

The land in this township ranged from level bottom land along the river and creeks to steep mountains, and the soil ranges from rich black loam to stony bluffs. **The soil along the Methow River and along Goat Creek, Chub Creek and Fawn Creek is generally very rich and capable of producing abundant crops without irrigation, although some of the land along the creeks has a high elevation.** The soil is good as most of the ridges in the south and east part of the township. Goat Mountain in the NW part of the township is very high and rugged.

Hemlock, fir, alder, cottonwood, alderwood, and maple timber are found along the Methow River and some of the creeks. The mountains are generally covered with a dense growth of pine and fir timber, many of the trees being 3 or 4 f[ee]t in diam[eter] but short and scrubby.

Gold and copper have been prospected for in sec[ti]on[s] 20,21 and 30 and there is a 20 stamp quarts mill near the center of sec[ti]on] 30. The mill has not been run[ning] for several years and no mining is being done in the township at present except [n] for claims.

The township is well watered by the Methow River, Goat Creek, Chub Creek, Fawn Creek and many springs and small creeks.

Mazama P.O. is in Mrs. Ellen McCain's two story frame house, which bears 4.00 ch[ain]s N of a pint 23.36 ch[ain]s W of cor[ner] of sec[ti]on[s] 29,30,31 and 32. There is a 20 stamp quarts mill near the center of sec[ti]on] 30, also a hotel building, a store building and a number of small houses and cabins, which were used [when the mines were being worked], but the store, [n], small houses are now vacant.

Mrs. Ellen McCain is located on the S1/4 of the SE 1/4 and E 1/4 of the SW 1/4 of sec[ti]on] 30. Improvements consist of good house and barn, and about 30 acres of cleared land. Value of improvements about \$4000.00

Edd Kegel is located on about 40 acres in S part of NW 1/4 and N part of NE 1/4 of SW 1/4 of Sec[ti]on] 30, described by metes and bounds. The description of the Ellen McCain [portion] is changed to include the NE 1/4 of the SW 1/4 of sec[ti]on] 30 at the time the survey was made, thus including about

1/4 of Kagel's claim. Kagel's improvements consist of house and barn and about 18 acres of cleared land, with several acres in young orchard. Value of improvements \$2500.00

(Rhodes 1908b)

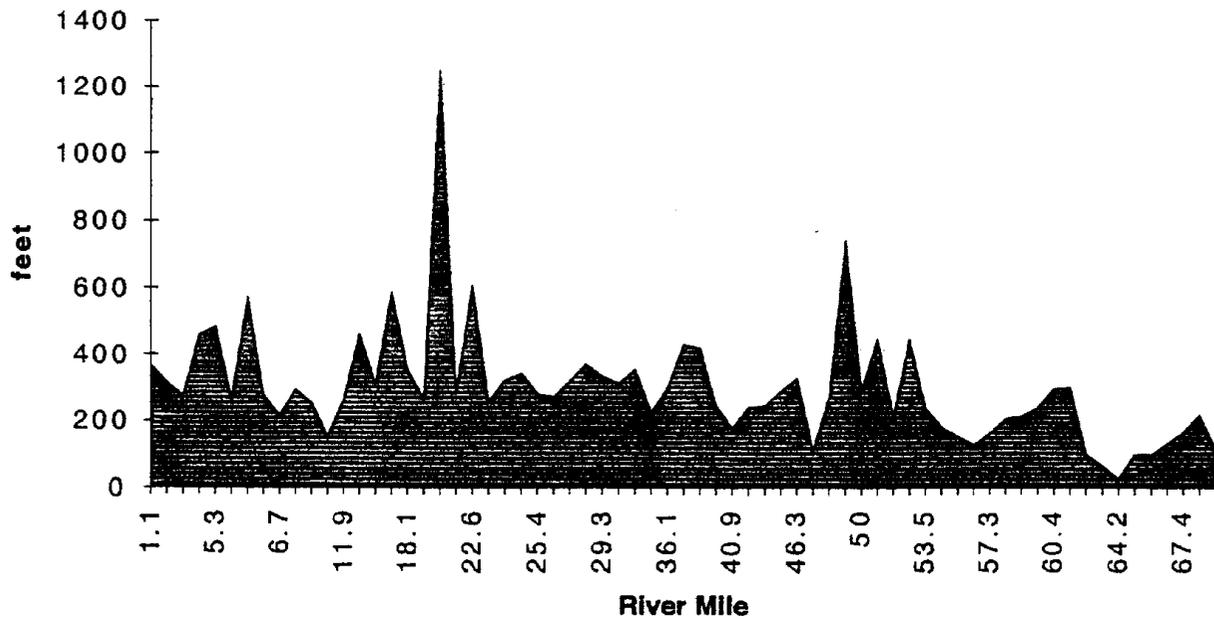
TOWNSHIP 36N, RANGE 19E, W.M.
[n/a]

TOWNSHIP 37N, RANGE 19E, W.M.
[n/a]

TOWNSHIP 36N, RANGE 18E, W.M.
[n/a]

TOWNSHIP 36N, RANGE 17E, W.M.
[n/a]

Methow River Width



Methow.tot

Township	Sections	River Mile	Width (chs)	Width (feet)
				1 ch = 66 ft.
T 30N, R 23E	S 35	1.1	5.56	367
	27,34	3.1	4.76	314
	27,28	3.6	4.18	276
	27,28	3.7	6.95	459
	21,28	5.3	7.34	484
	21,20	5.4	3.98	263
	20,29	5.6	8.67	572
	20,29	6.2	4.2	277
	19,20	6.7	3.24	214
	19,30	6.8	4.47	295
	W 19	8.4	3.87	255
T 30N, R 22E	13,24	9	2.3	152
	6,7	11.9	3.97	262
T 31N, R 23E	W31	14.8	7	462
T 31N, R 22E	35,36	16.2	4.66	308
	35,26	17.6	8.91	588
	26,27	18.1	5.36	354
	27,22	19.7	4.03	266
	21,22	9.8	18.94	1250
	16,21	21	4.29	283
	9,16	22.6	9.22	609
	9,8	23.1	3.89	257
	8,17	23.4	4.91	324
	7,8	25.1	5.22	345
	6,7	25.4	4.24	280
	6,5	25.8	4.14	273
	N 5	26.7	4.85	320
T 32N, R 22E	29,32	27.9	5.63	372
	20,29	29.3	5.07	335
	20,21	31.8	4.75	314
	21,16	31.9	5.39	356
	10,3	35.1	3.39	224
	N 3	36.1	4.52	298
T 33N, R 22E	34,27	37.5	6.51	430
	27,28	38.5	6.35	419
	21,22	39.1	3.7	244
	21,20	40.9	2.67	176
	20,17	42.4	3.67	242
	17,8	44.7	3.74	247
	8,7	45.4	4.4	290
	7,6	46.3	4.99	329
	N 6	47.5	1.63	108
T 34 N, R 22E	30,31	48.7	4.16	275
	W 30	49.4	11.26	743

CONCLUSIONS

The Methow exhibited many features of a "braided river" in its course through the Methow Valley. The cadastral surveyors noted various sloughs, old channels, and places where the river had changed its course over time. The uppermost reaches of the Methow were forested into the early twentieth century. C. Frank Rhodes noted specifically that he found alder, maple, cottonwood, hemlock and fir "along the Methow River and some of the creeks." As to the water quality, the comments of Rhodes were telling: "To left bank of Methow River. The River at this point is from 1 to 3 f[ee]t deep, clear water, and swift current" (Rhodes 1908b).

In the upper part of the Methow Valley the river conditions were likewise well thought of. George A. Schwartz wrote in 1900: "The Methow river, a rapid rather shallow stream of clear water flows through nearly every surveyed section. The land is well watered" (Schwartz 1900d). The stream corridor in the main valley also was lined by vegetation. Working upstream from Winthrop, Moses M. Emerson encountered "dense undergrowth" along the stream corridor. He also noted "timber, a few pine and fir along the river" (Emerson 1894d). In his work downstream from Winthrop, Emerson also encountered "undergrowth" at several points where he crossed the Methow (1894b). In the vicinity of Twisp, Washington, George A. Schwartz noted both "undergrowth" and also "timber some Cottonwood and aspen along river" (Schwartz 1900b). Below Twisp Moses M. Emerson found the township well-watered by the Methow and Twisp rivers and Beaver and McClure creeks. "The timber along the rivers and creeks," he concluded, "is generally cottonwood of small size, and large scattering pine trees." At numerous points the surveyor encountered "dense undergrowth" in running sections lines across the river (Emerson 1897f).

Between Carlton and Twisp in the lower part of the Methow Valley the river also was vegetated in its corridor. "Scattering cottonwood is found along the Methow River and its tributaries," observed Emerson. "The Methow River is generally skirted with a dense undergrowth of aspen, willow, rose bush, thorn and dogwood, and flows mostly between steep and rocky banks from 8 to 60 f[ee]t high" (Emerson 1898b).

Below Carlton the Methow dropped deeper into its canyon and the vegetation began to thin. "Timber is pine and fir and generally 2d class with some cottonwood along the Methow River," noted Moses M. Emerson (1897b). Closer to the Columbia River, Emery J. Hermans noted: "Timber a few scattering pines along the Methow river and Squaw

C[ree]k" (Hermans 1901b).

While mining attracted a number of persons who opened tunnels, built ditches, and erected a concentrator, the mineral deposits proved elusive. The short duration of mining and the limited yield from the placers probably meant that this activity did not significantly alter either the gravels or quality of water in the Methow for any sustained time. No records survive for production but it is likely that the watershed was not in sustained mining activity but for three or four years.

Agricultural development, however, did set the stage for numerous impacts on the Methow. From initial settlement in the 1880s the farmers began cutting ditches and withdrawing water. While the withdrawals were probably not significant, the passage of the water through fields filled with livestock may have introduced a steady and important source of fecal pollution. Further, the development of livestock production undoubtedly contributed to decades of grazing in creek and river bottoms which has destroyed understory and even major trees which, had they not been browsed, might have grown to serve as important factors in shading the Methow and its smaller feeders.

The impacts of log drives were insignificant. There is no evidence of splash dams or their impacts on gravels and erosion in the Methow. The more recent history of logging and erosion resulting from major forest fires along the eastern slope of the Cascades was beyond the scope of this study. Collectively they have, however, probably contributed to the present conditions in the river.

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